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13. ABSTRACT

This publication contains isoline charts showing monthly mean and extreme temperatures, mean number of thunderstorm days, precipitation amounts, frequencies of two categories of flying conditions, and other parameters, all for the European-Northern Africa-Mid East area.

DEPARTMENT OF THE AIR FORCE
Headquarters 2d Weather Wing (MAC)
APO New York 09332

2WW PAMPHLET 105-13
31 January 1972

Weather

EUROPEAN CLIMATOLOGICAL GUIDE

This pamphlet provides summarized data of some of the most important meteorological parameters affecting Europe. Both mean and extreme values of temperatures by month are shown in isotherm form. Other factors, as precipitation and thunderstorm activity, are reflected in charts of average values. The pamphlet will be useful in general planning for military operations throughout the year.

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SECTION 1

Introduction

1-1. General. This pamphlet is intended to provide both meteorologists and operations personnel a ready climatological and planning reference for the European theater. It is largely an extension and continuation of the data presented on charts in 2 Weather Wing Pamphlet 105-6, Climatology, 15 November 1965. The main areas of concern in that earlier publication were the eastern portions of Europe. In this more complete volume data for western Europe, northern Africa and Near East have been added.

The elements shown in this publication are frequently considered in the inital planning stage for various military operations. The charts show average frequencies and limits of weather phenomenon computed from observations taken over a period of years. They are not a forecast of conditions for any particular year, month or day. Application of these climatic data to planning detailed specific operations is often unwarranted. In case of doubt, an applied climatology study of a specific problem should be requested.

The assistance of Mr. Willi Laun in compiling, editing and plotting the thousands of pieces of data for this publication is gratefully acknowledged. His work has been indispensable to the completion of this project.

1-2. Data and Analysis Limitations. The isolines on the charts in this pamphlet were drawn after summarized data from various sources were plotted at numerous points. The most current climatological data available were used; however, many of the original weather observations were made prior to World War II. Increased urbanization and industrialization affect some parameters, particularly visibility values, which have probably decreased near industrial areas in recent years. The visibility values shown here are therefore more representative of present day rural and smaller industrial areas than of large industrial areas. The magnitude of the effect obviously depends on the size of the industrial area and the distance from it. Thus, precise quantitative values of the effect would not be meaningful over any large area, even if they were available.

Isoline analyses are always somewhat unsatisfactory because the plotted data are strictly representative only for individual stations. The use of synoptic observations from standard instrument shelters reduces this effect, except for visibility which is highly discontinuous. The effects from all factors which tend to make observations non-representative for a large area are not known for each station. Therefore, unless an obvious reason for non-representativeness (such as a mountain station) existed, the data have been accepted as representative. In mountainous areas, often only one isopleth was drawn because the gradients were too great to be adequately described by the isopleth interval used. In some cases, "spot" values were plotted to depict the large differences encountered with changes in elevation.

Extreme maximum and minimum temperature, sometimes termed absolute extremes, vary greatly from point to point and from year to year. Another aspect which tends to confuse these presentations is that the period of record of the original data varied considerably from one station to another. As a rough estimate the indicated extreme values may be expected to occur approximately once in 20 years.

SECTION 2

Chart Descriptions and Data Sources

2-1. Temperature (48 charts). Temperature charts include

a. Monthly mean daily maximums.

b. Monthly mean daily minimums.

c. The monthly extremes of temperature, all in degrees fahrenheit.

2-2. Precipitation (24 charts).

a. Monthly mean precipitation in inches.

b. Monthly mean number of days with measurable precipitation (at least 0.004 inches liquid).

2-3. Thunderstorms (12 charts). These show the monthly mean number of thunderstorm days for each month. A thunderstorm day is a day in which thunder is audible from the point of observation.

2-4. Ceiling and Visibility (48 charts). These charts for each month show the percent frequency of occurrence of ceiling and/or visibility less than 300 feet/1 mile and 1500 feet/3 miles at 0800 and 1400 local standard time.

2-5. Sea Temperature (24 charts). These charts for each month show the mean water temperature and mean minimum water temperature for each month. They have been extracted from the Oceanographic Atlas of the North Atlantic Ocean, Section II, Physical Properties, of the U.S. Naval Oceanographic Office.

2-6. Aircraft Icing (12 charts). One chart has been included for each of the four seasons for aircraft flying at 5,000, 10,000 and 15,000 feet MSL. Very little icing, if any, should be expected above 15,000 feet except near large cumulus-type buildups. Data on these charts have been taken from Air Weather Service Technical Report 194, Climatological Probability of Aircraft Icing. Methods of determining these probabilities are described therein.

2-7. Data Sources and References

a. Air Weather Service Technical Report 194, Climatological Probability of Aircraft Icing, 1967.

b. U.S. Naval Oceanographic Office, Pub No. 700, Oceanographic Atlas of the North Atlantic Ocean, Section II, Physical Properties, 1967.

c. Great Britain Meteorological Office, Tables of Temperature, Relative Humidity and Precipitation for the World, Part III, Europe and the Atlantic Ocean North of 35°N, 1958.

d. NIS Weather Summaries for many countries, (dates vary).

e. 3 Weather Wing SS, Ceiling - Visibility Summaries (Europe), 1964.

f. USAF Environmental Technical Applications Center, Worldwide Airfield Climatic Data, Volumes II, IX, X, 1968-71.

g. 2 Weather Wing Pamphlet 105-6, Climatology, 1965.

2-7 Snowfall Days (12 charts).
A snowfall day is one during which falling snow is observed, regardless of wether there is snow accumulation.

SECTION 3

Climatic Charts

3-1. Chart Numbering System. The first digit of the following page numbers indicates the section which corresponds to the month, except for section 13 which contains seasonal charts. The second digit indicates the type of chart, which remains the same throughout all months. For example, chart 5-4 is the May Extreme Minimum Temperature and chart 11-5 is the November Mean Precipitation. The order of the charts, which is shown below, is the same in all months.

a. Monthly Charts:

1 Extreme Maximum Temperature

2 Mean Maximum Temperature

3 Mean Minimum Temperature

4 Extreme Minimum Temperature

5 Mean Precipitation (Inches)

6 Mean Number of Days with Precipitation

7 Mean Number of Thunderstorm Days

8 Frequency of Ceiling/Visibility Below 300 ft/1 mi, 0800 LST

9 Frequency of Ceiling/Visibility Below 300 ft/1 mi, 1400 LST

10 Frequency of Ceiling/Visibility Below 1500 ft/3 mi, 0800 LST

11 Frequency of Ceiling/Visibility Below 1500 ft/3 mi, 1400 LST

12 Minimum Sea Surface Temperature (°F)

13 Mean Sea Surface Temperature (°F)

14 Mean Number of Snowfall Days

b. Season Charts

13-1 Icing Probability, 5000 ft, Winter

13-2 Icing Probability, 10,000 ft Winter

13-3 Icing Probability, 15,000 ft, Winter

13-4 Icing Probability, 5,000 ft, Spring

13-5 Icing Probability, 10,000 ft Spring

13-6 Icing Probability, 15,000 ft Spring

13-7 Icing Probability, 5,000 ft Summer

13-8 Icing Probability, 10,000 ft Summer

13-9 Icing Probability, 15,000 ft Summer

13-10 Icing Probability, 5,000 ft Autumn

13-11 Icing Probability, 10,000 ft Autumn

13-12 Icing Probability, 15,000 ft Autumn

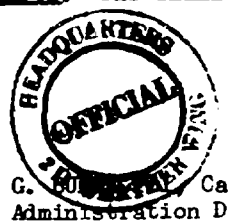
c. Locator Charts

14-1 For Ceiling/Visibility and Thunderstorm Days

14-2 For Precipitation and Temperature

14-3 For Snowfall Days

3-2 Charts. The climatic charts follow in numerical order.

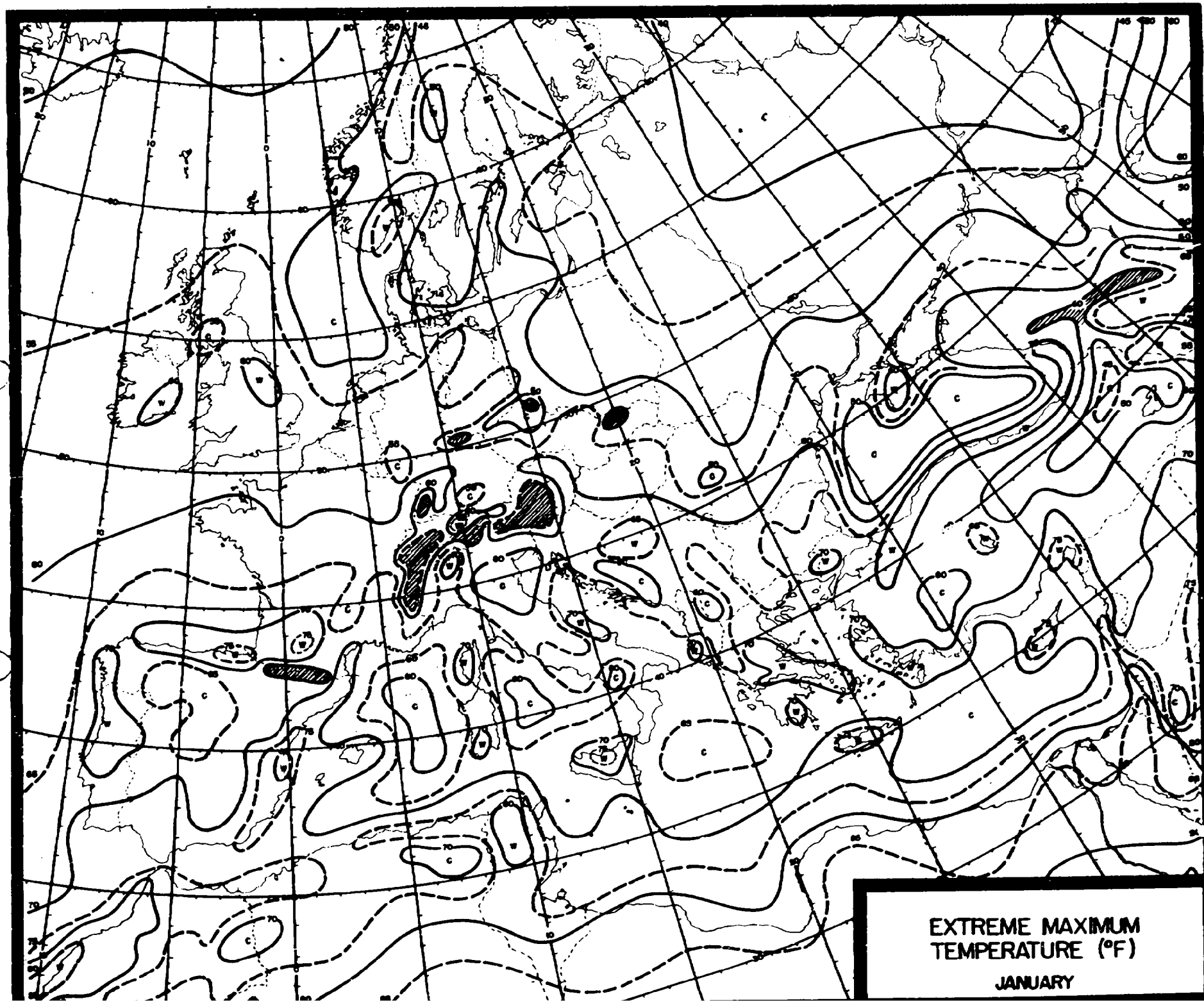


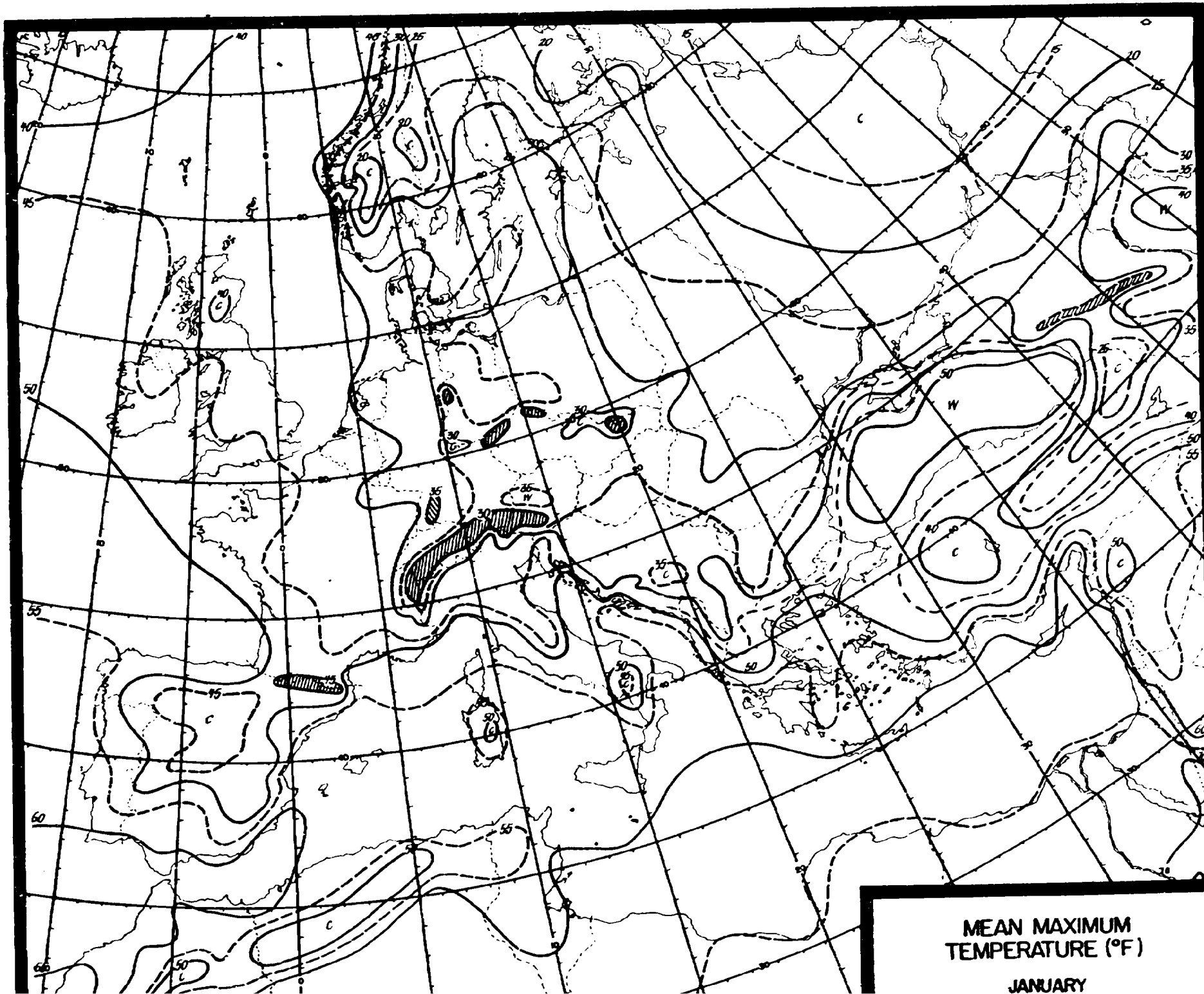
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Commander

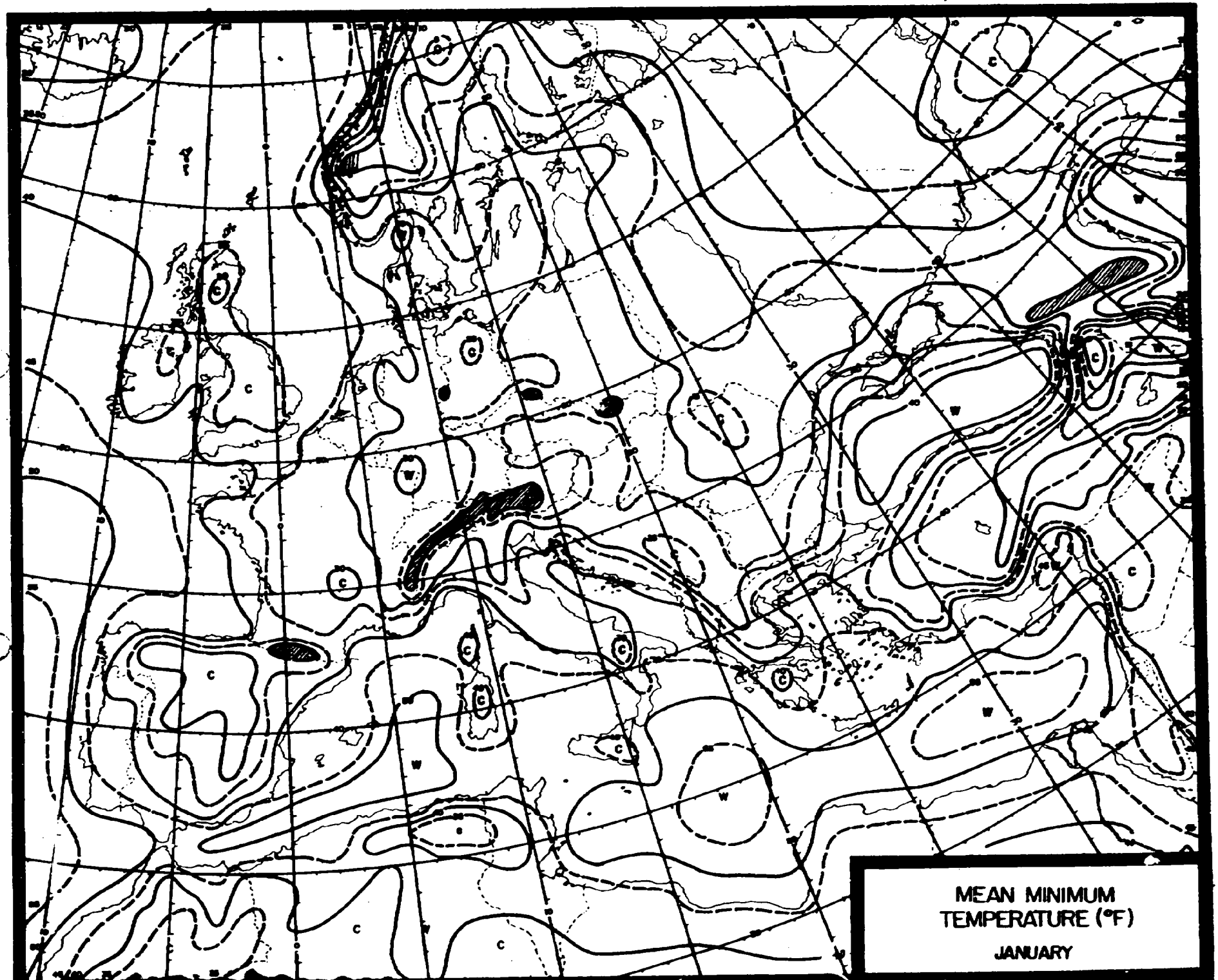
SAMUEL G. [redacted], Capt, USAF
Chief, Administration Division

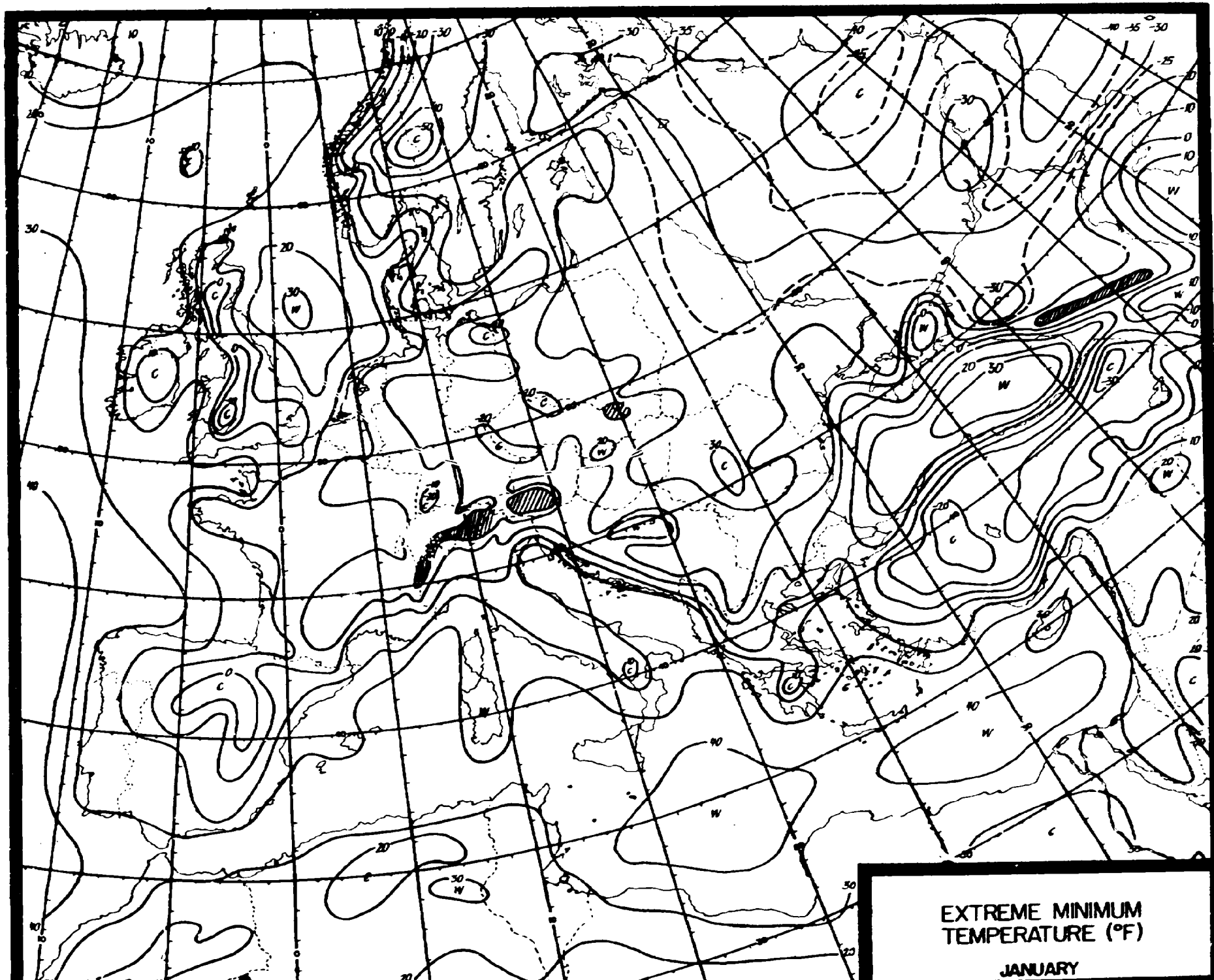
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EXTREME MAXIMUM
TEMPERATURE (°F)
JANUARY

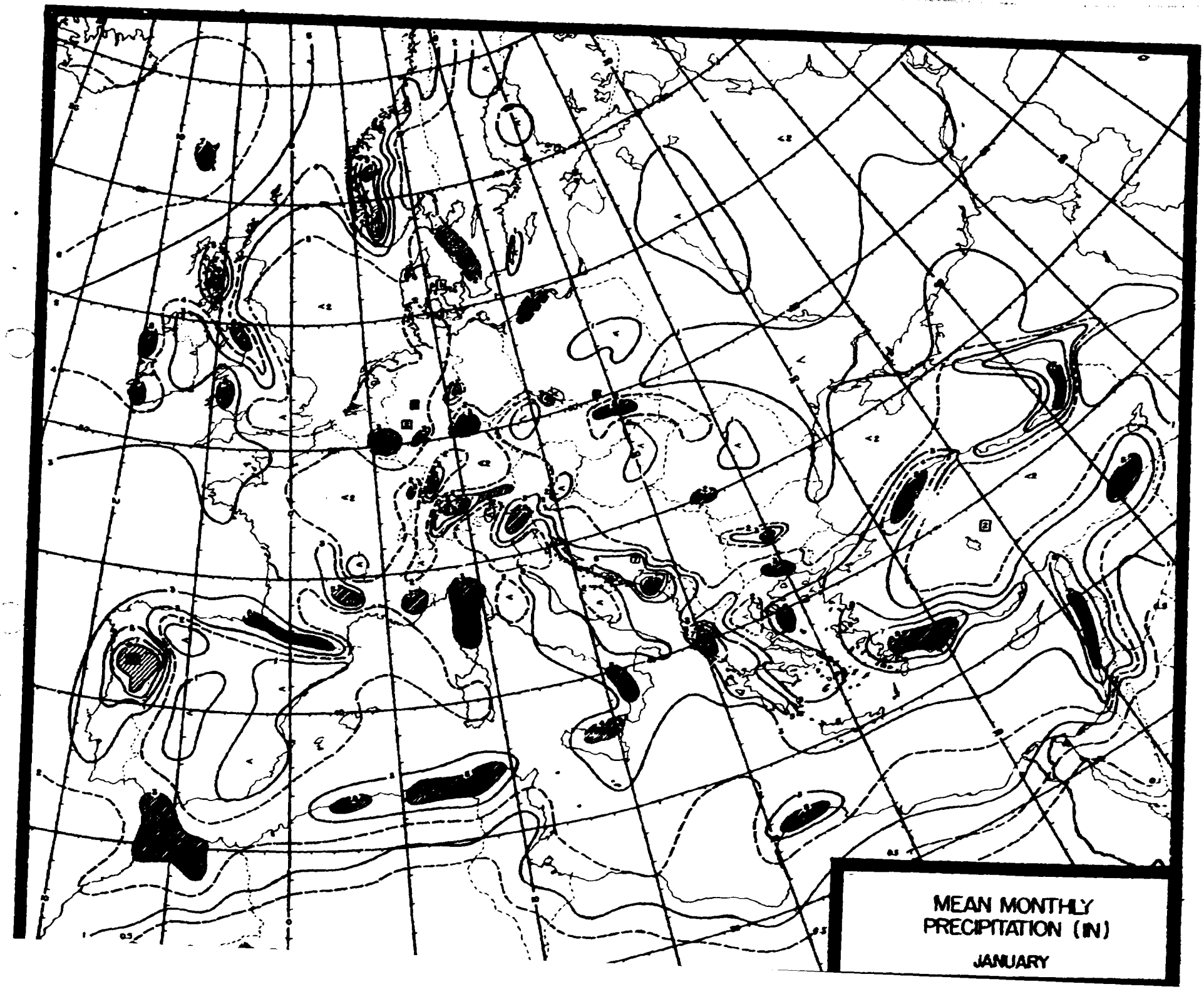

MEAN MAXIMUM
TEMPERATURE (°F)
JANUARY

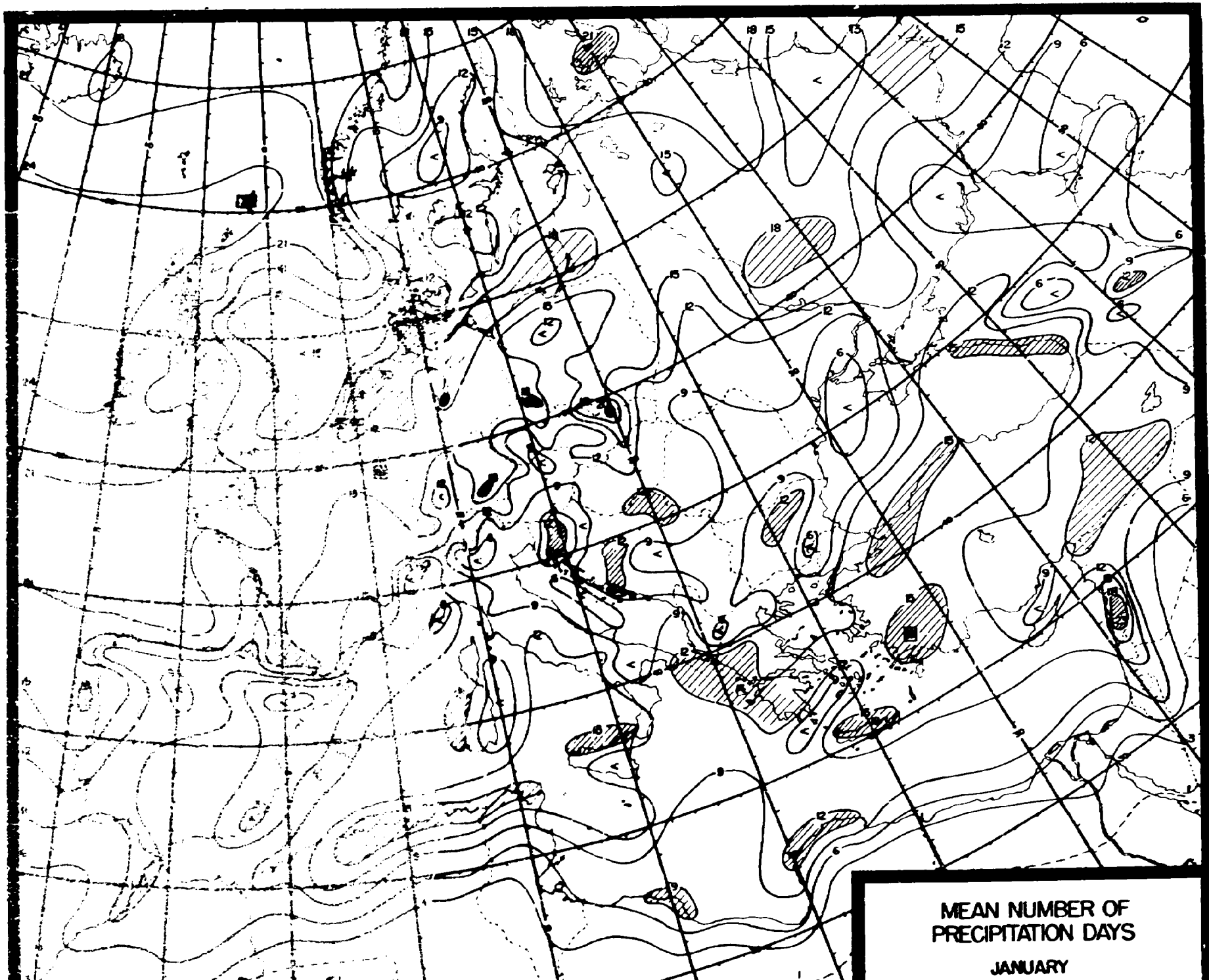

MEAN MINIMUM
TEMPERATURE (°F)
JANUARY



EXTREME MINIMUM
TEMPERATURE (°F)

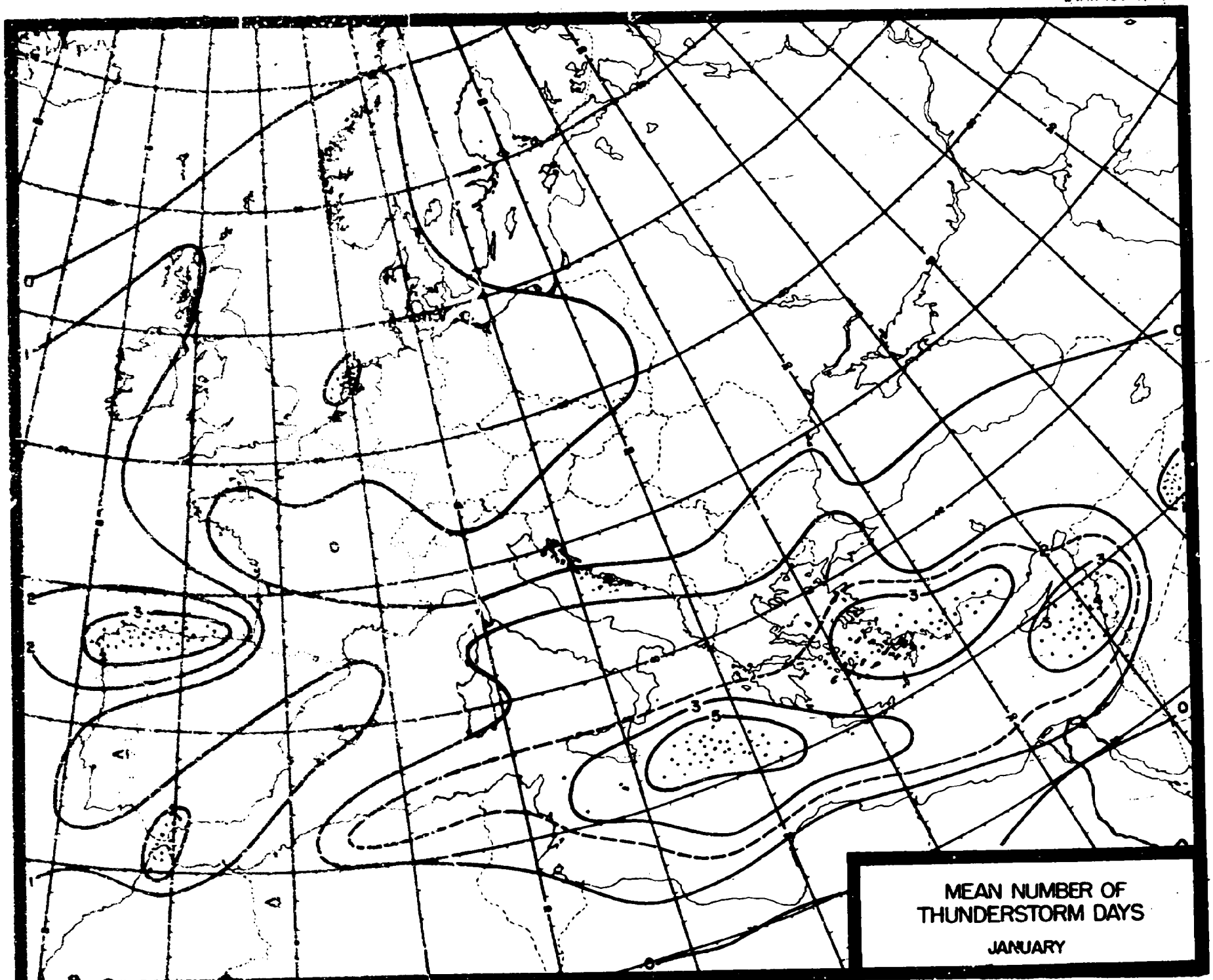
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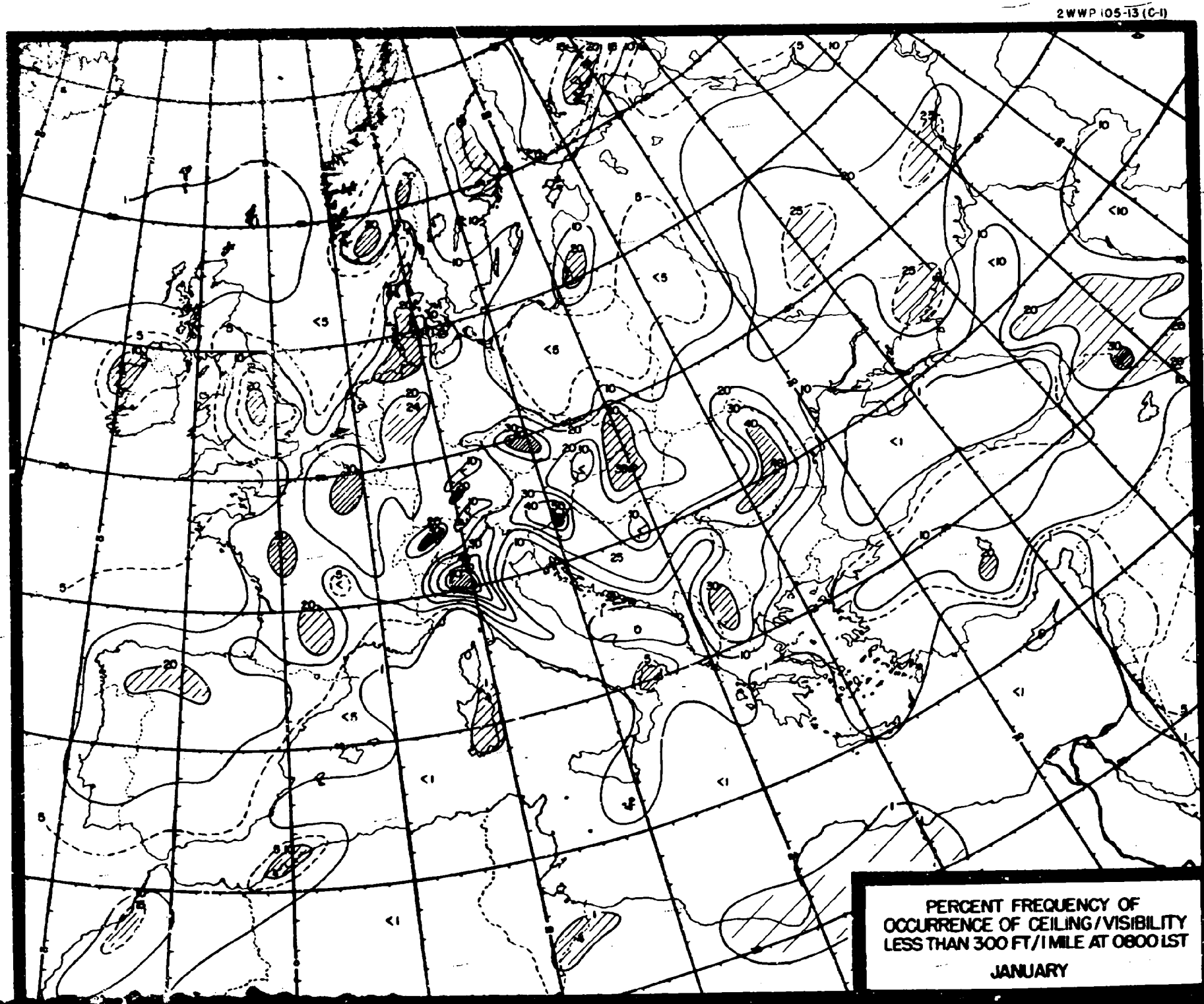

MEAN MONTHLY
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JANUARY

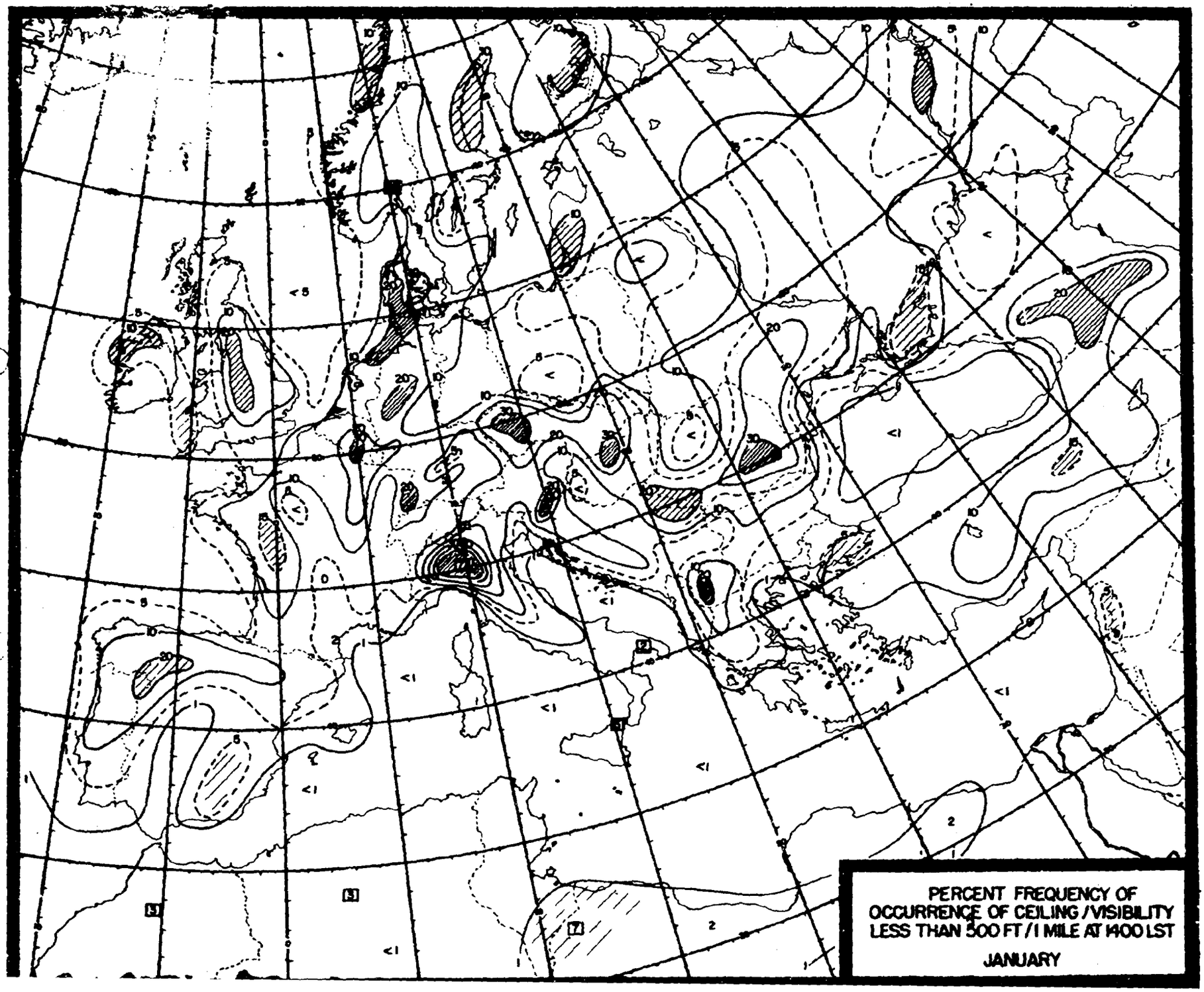


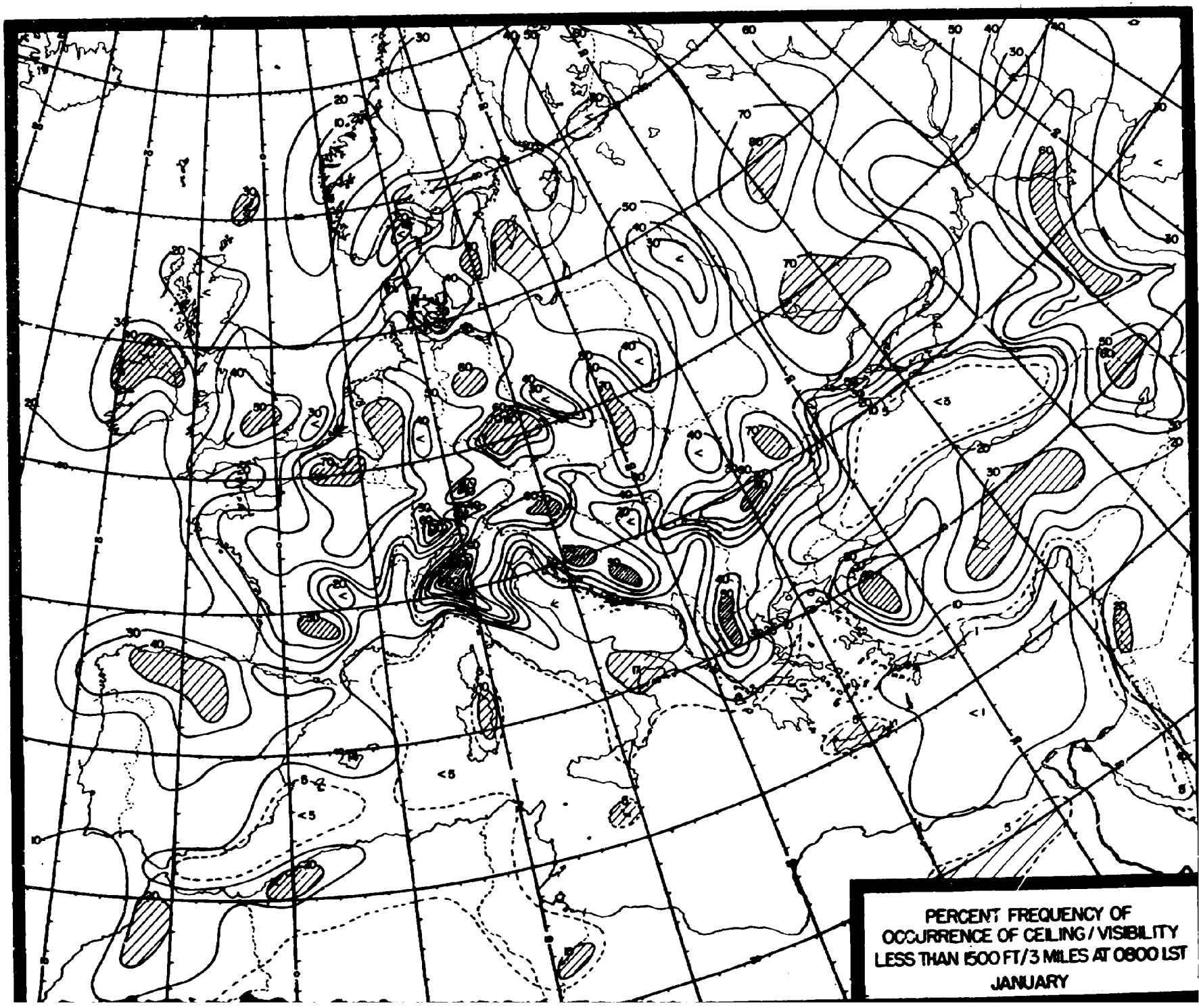
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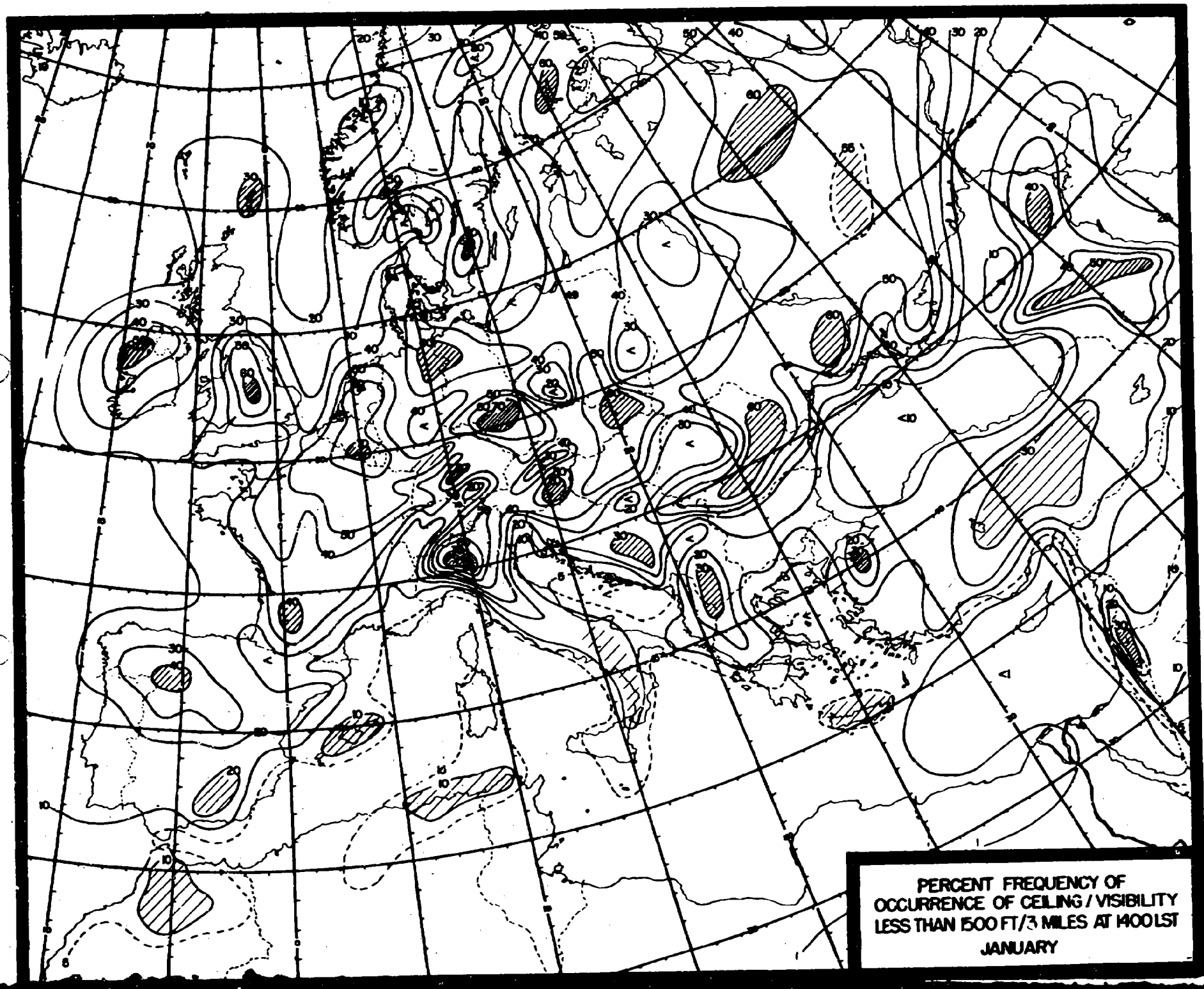
JANUARY


MEAN NUMBER OF
THUNDERSTORM DAYS
JANUARY

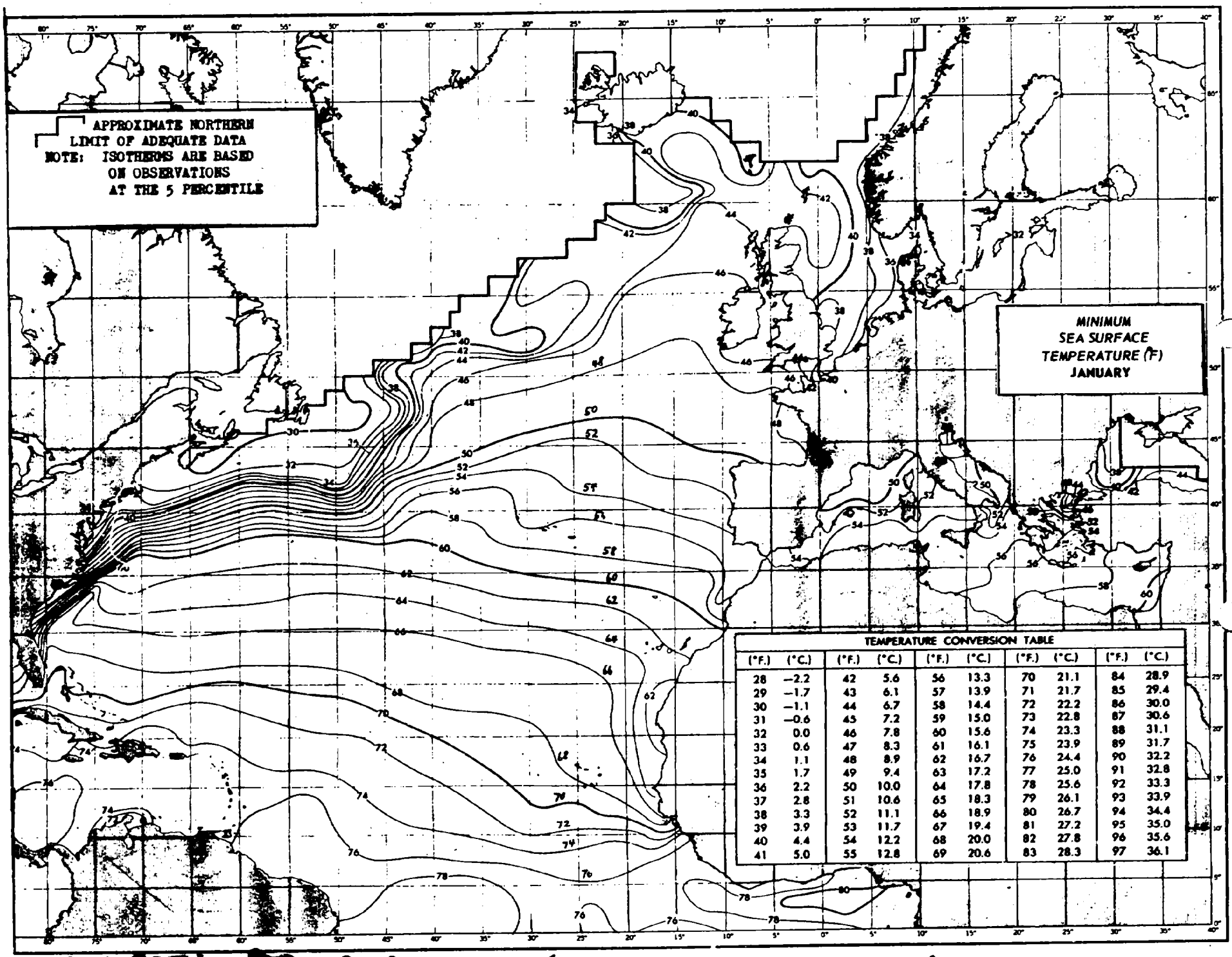

PERCENT FREQUENCY OF
OCCURRENCE OF CEILING/VISIBILITY
LESS THAN 300 FT/1 MILE AT 0800 LST
JANUARY


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 500 FT / 1 MILE AT 1400 LST
JANUARY


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 0800 LST
JANUARY

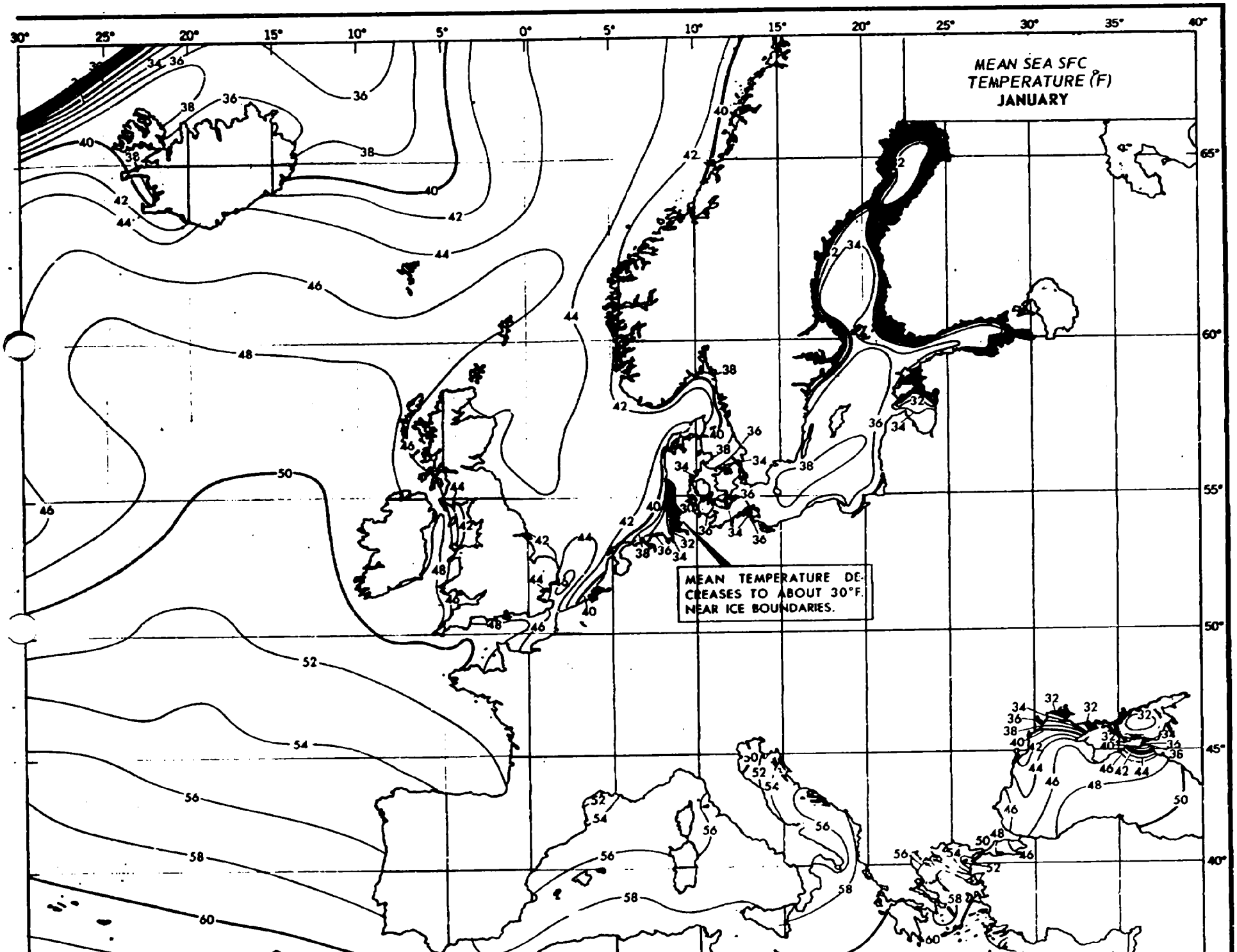


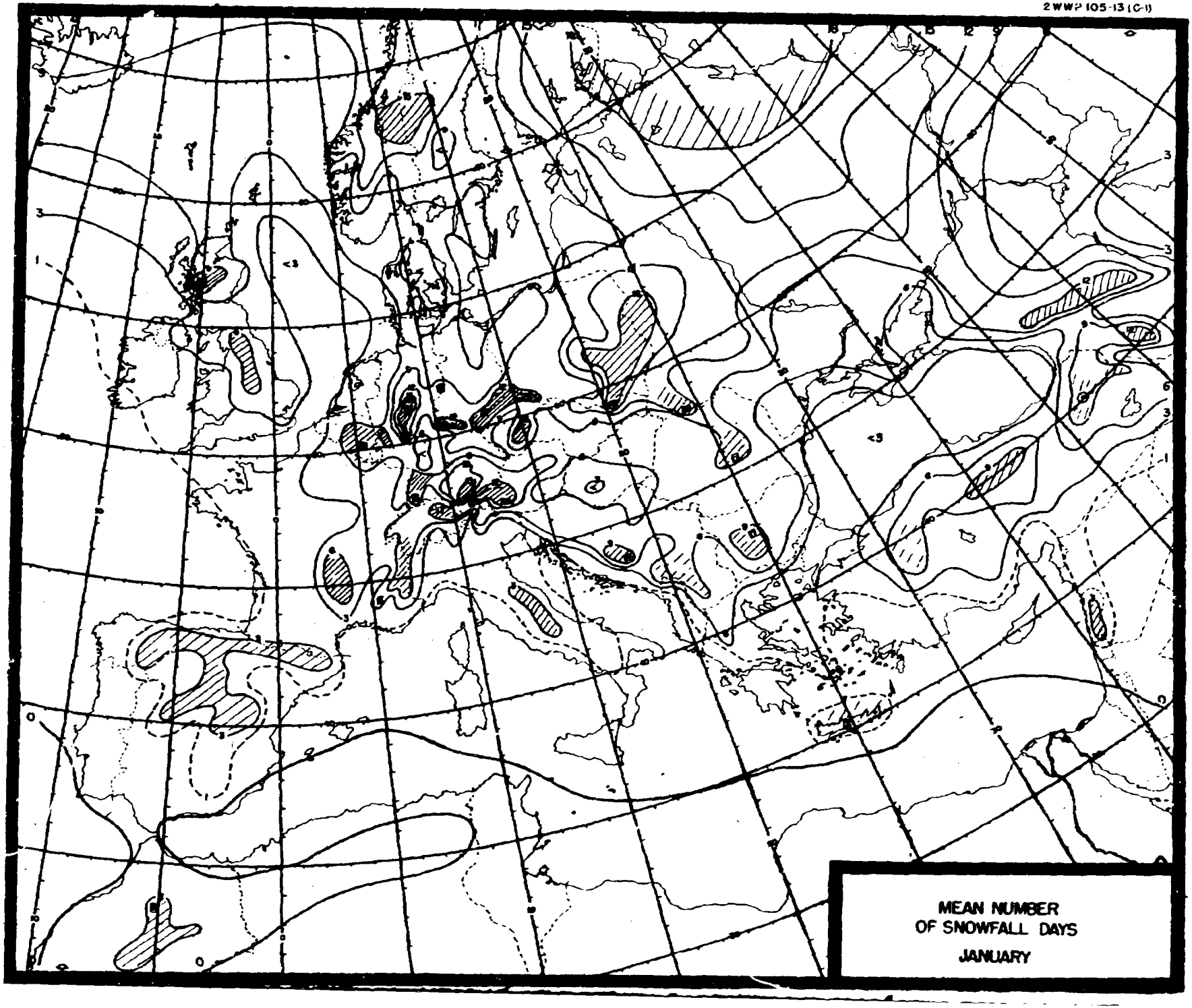
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OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 1400 LST
JANUARY

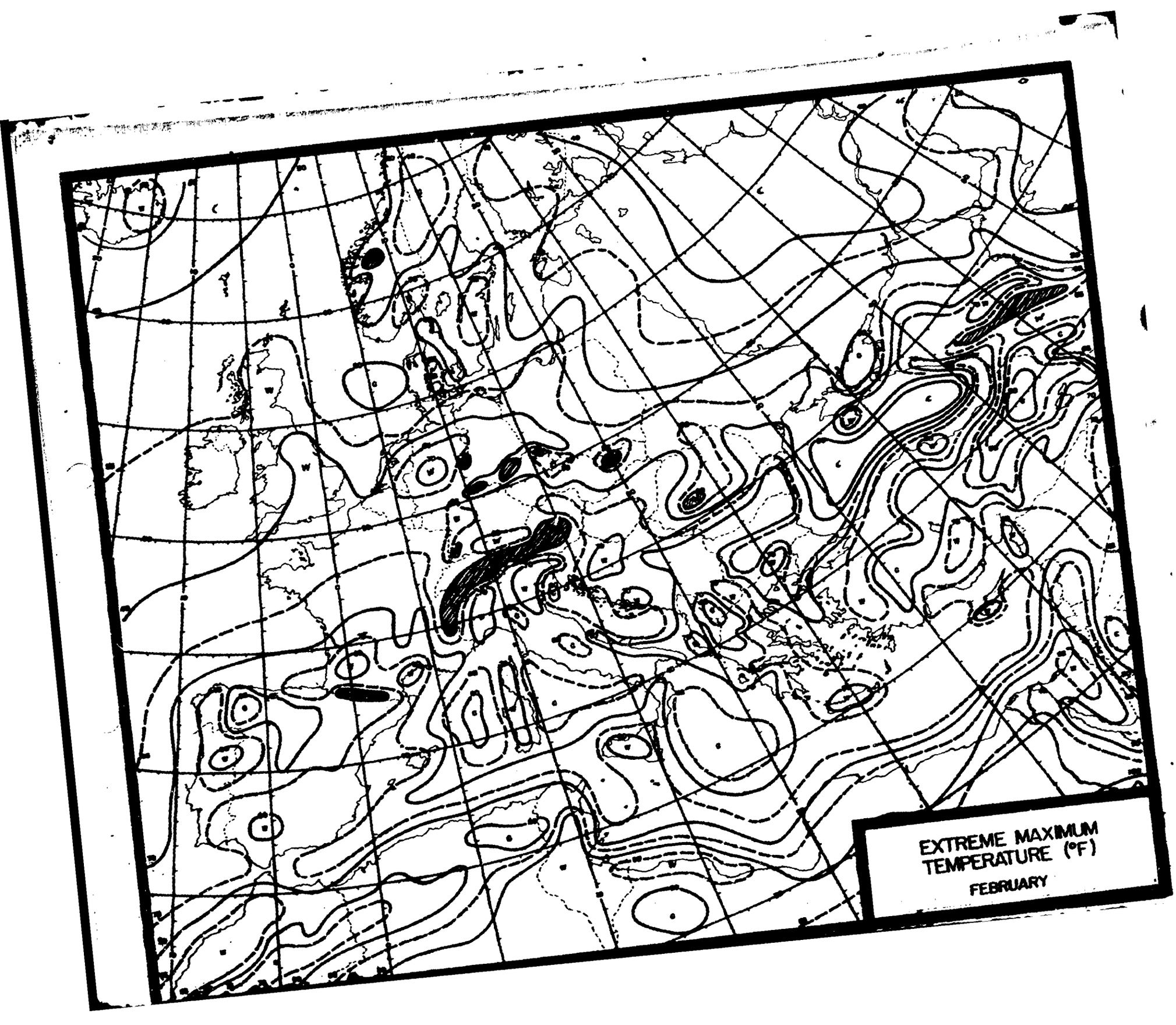


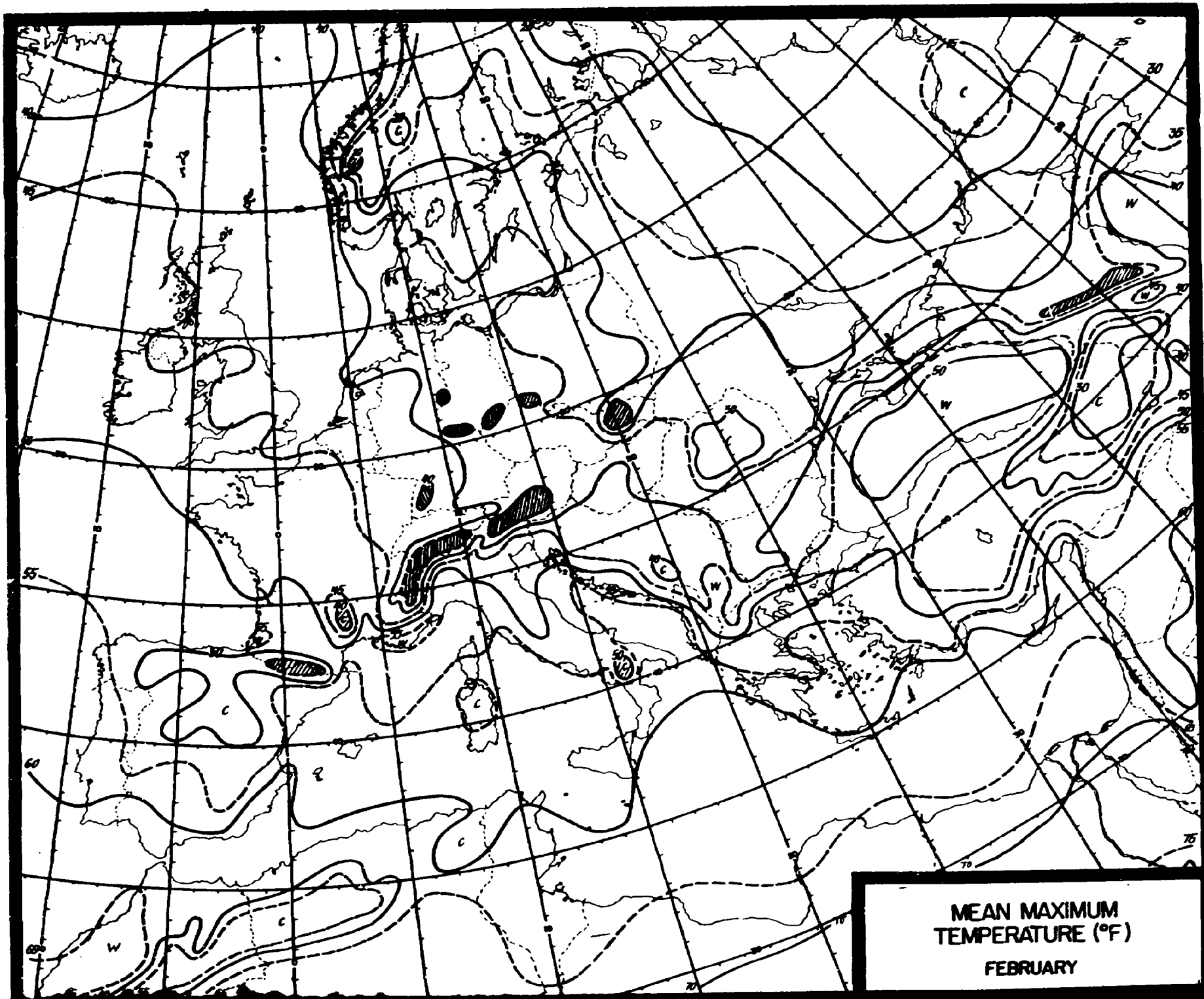
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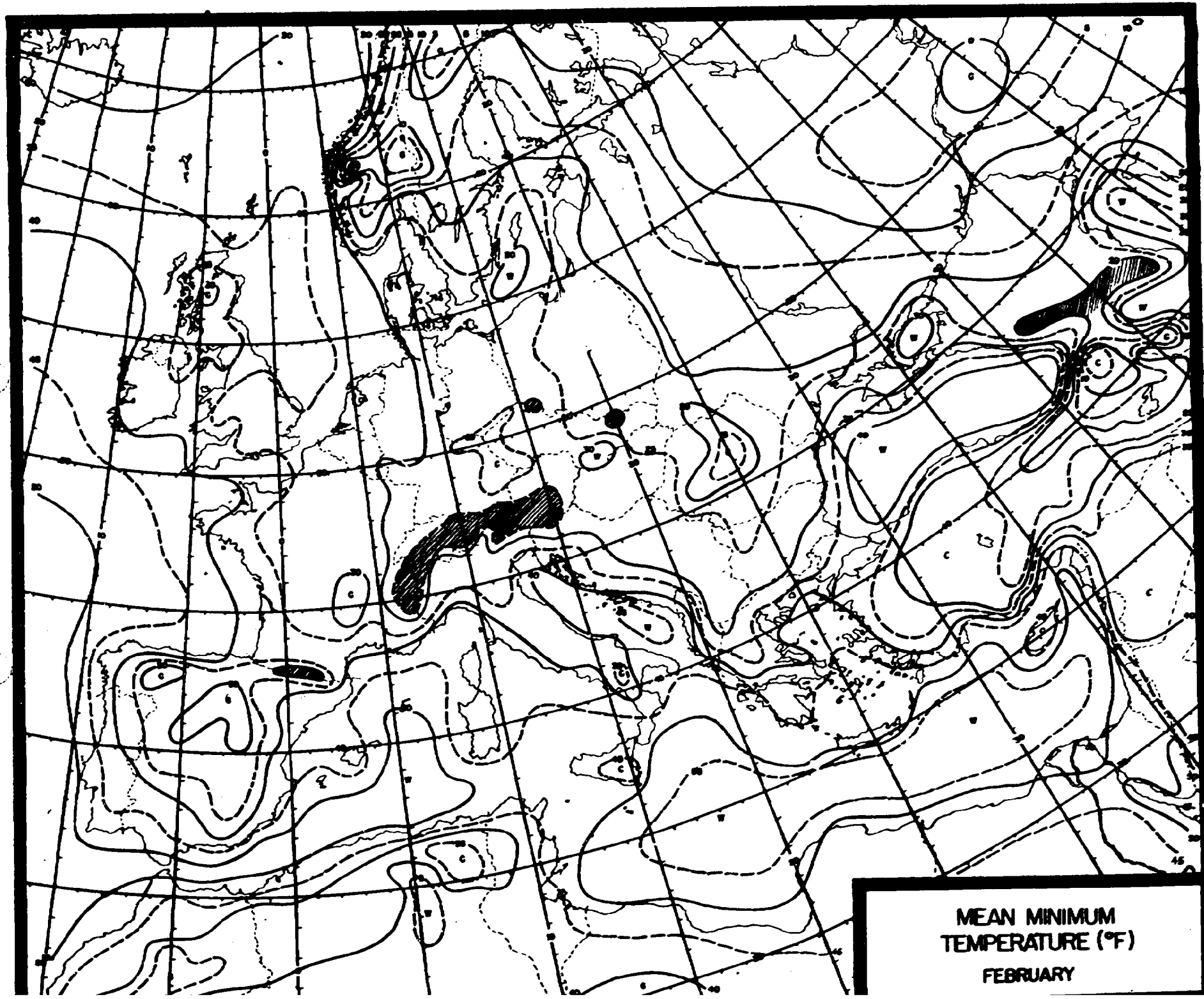
(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)
28	−2.2	42	5.6	56	13.3	70	21.1	84	28.9
29	−1.7	43	6.1	57	13.9	71	21.7	85	29.4
30	−1.1	44	6.7	58	14.4	72	22.2	86	30.0
31	−0.6	45	7.2	59	15.0	73	22.8	87	30.6
32	0.0	46	7.8	60	15.6	74	23.3	88	31.1
33	0.6	47	8.3	61	16.1	75	23.9	89	31.7
34	1.1	48	8.9	62	16.7	76	24.4	90	32.2
35	1.7	49	9.4	63	17.2	77	25.0	91	32.8
36	2.2	50	10.0	64	17.8	78	25.6	92	33.3
37	2.8	51	10.6	65	18.3	79	26.1	93	33.9
38	3.3	52	11.1	66	18.9	80	26.7	94	34.4
39	3.9	53	11.7	67	19.4	81	27.2	95	35.0
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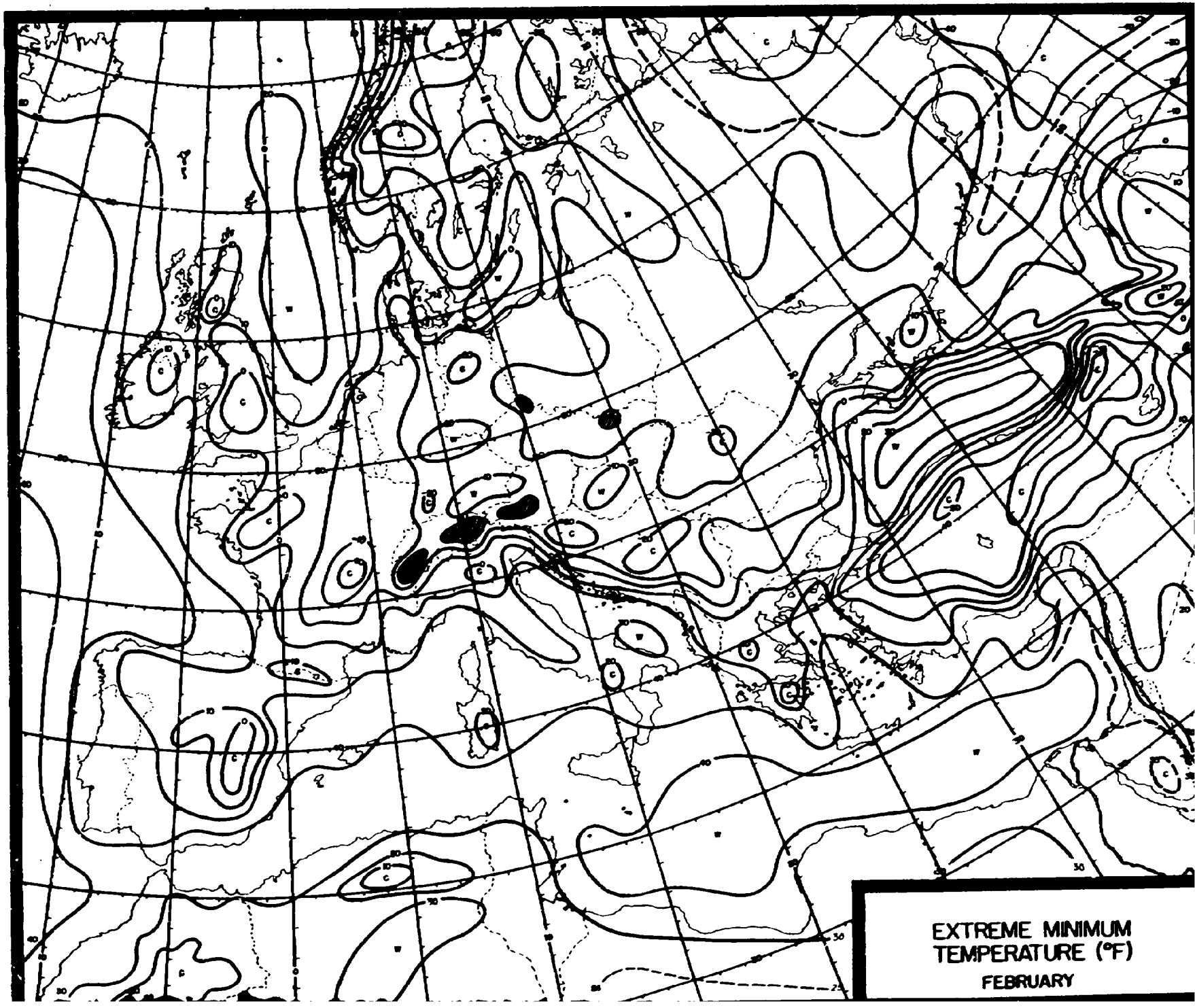

MEAN SEA SFC
TEMPERATURE (°F)
JANUARY
MEAN TEMPERATURE DECREASES TO ABOUT 30°F. NEAR ICE BOUNDARIES.
30°
25°
20°
15°
10°
5°
0°
5°
10°
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35°
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55°
50°
45°
40°

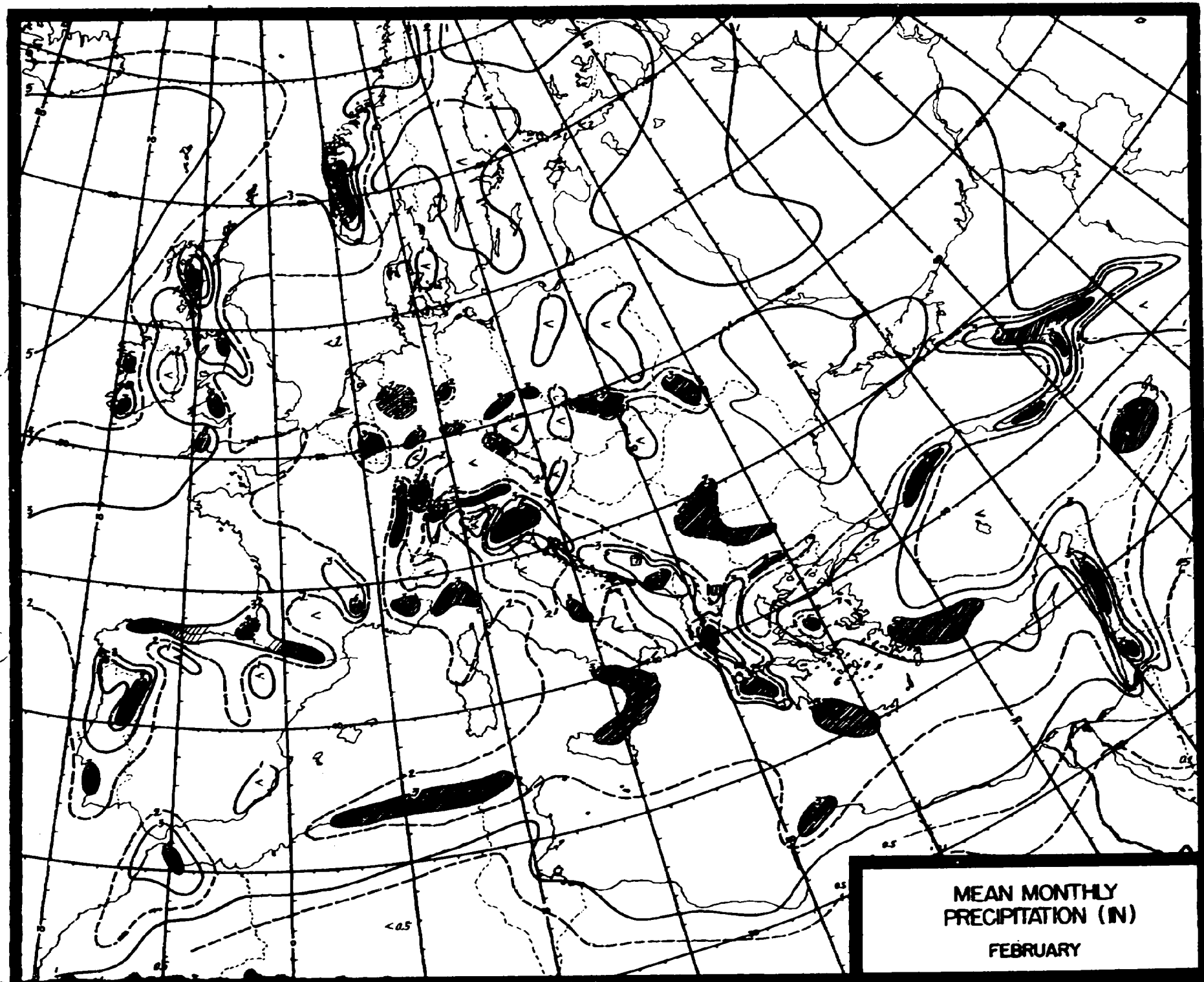

MEAN NUMBER
OF SNOWFALL DAYS
JANUARY

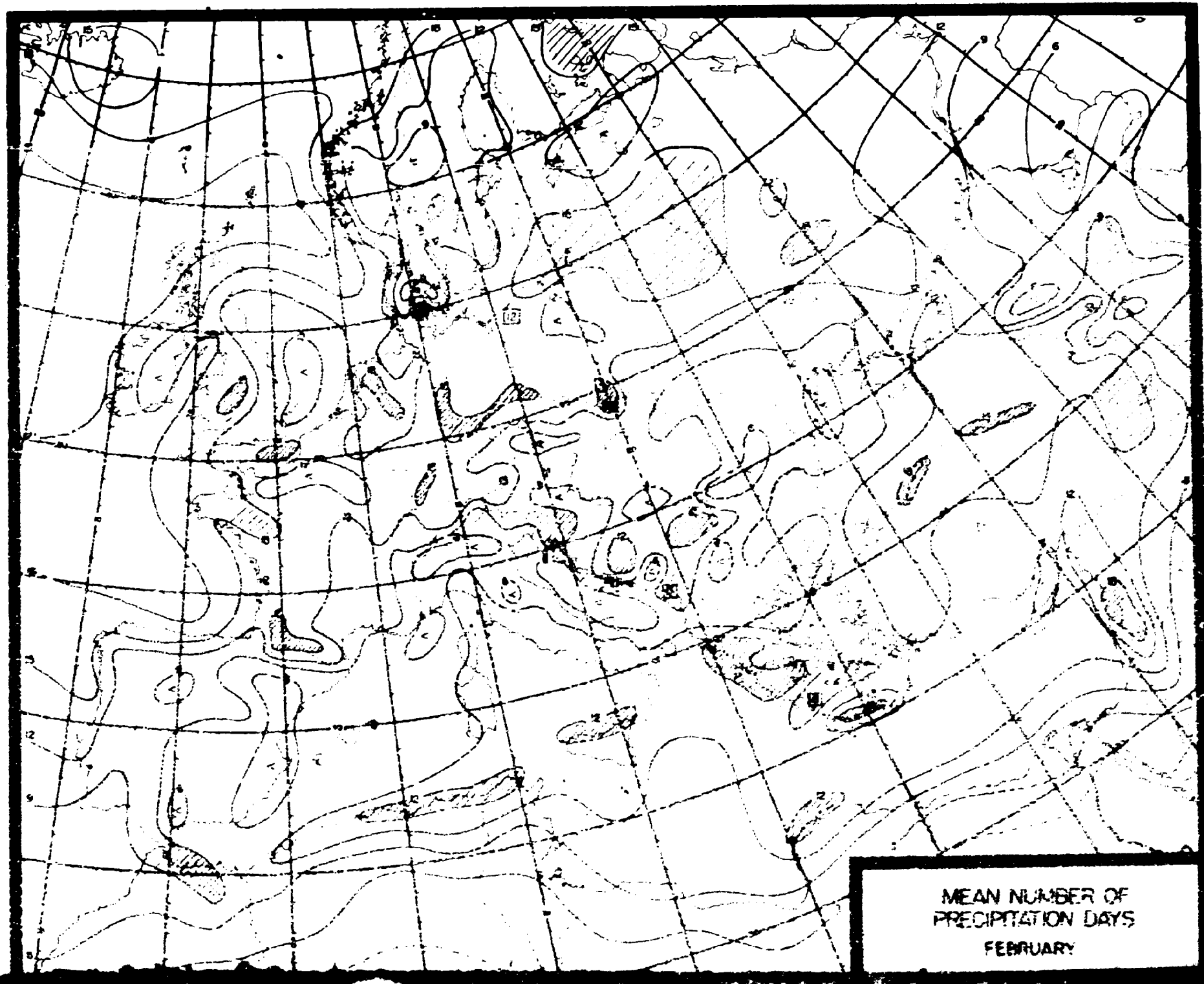

EXTREME MAXIMUM
TEMPERATURE (°F)
FEBRUARY


MEAN MAXIMUM
TEMPERATURE (°F)
FEBRUARY

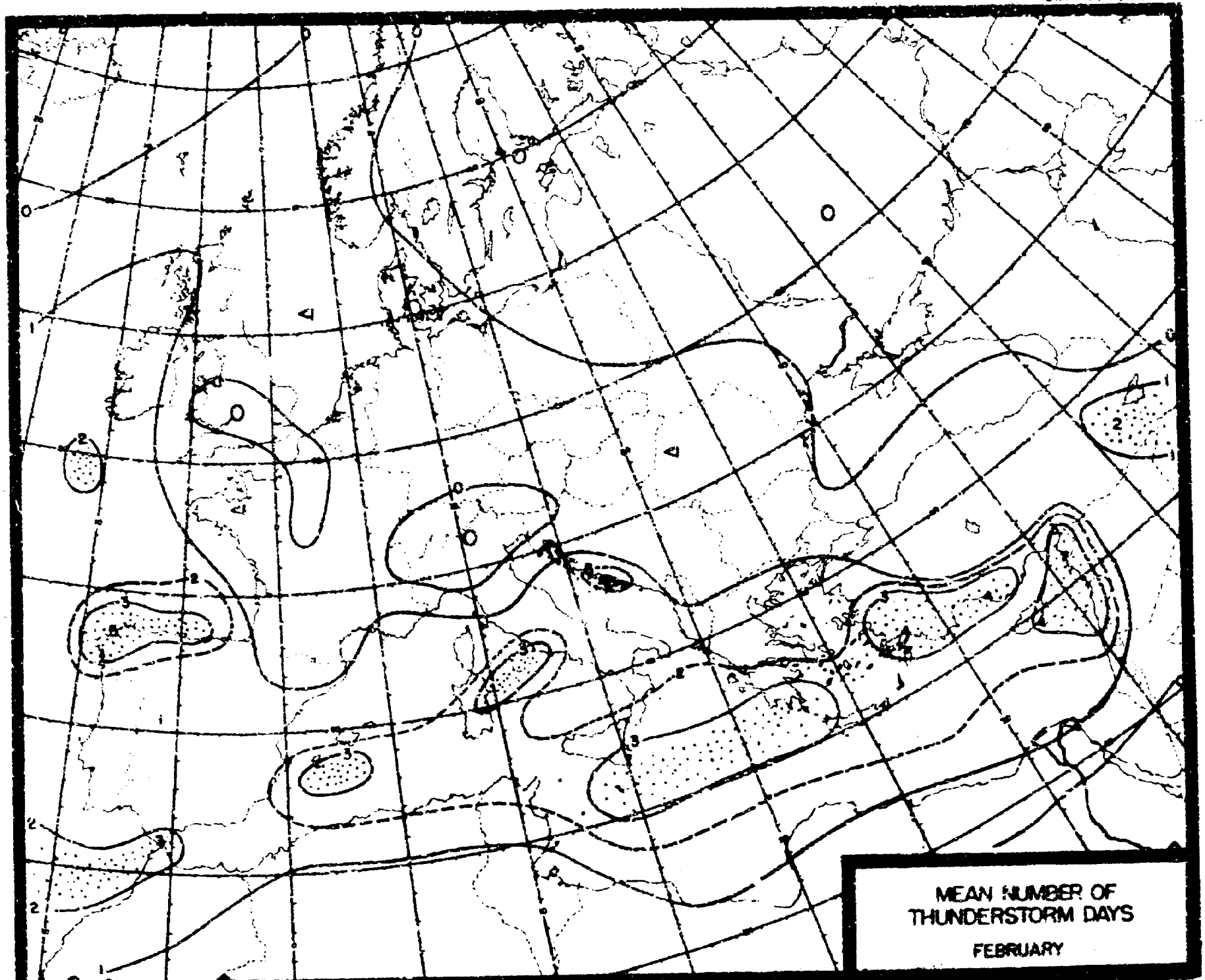

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TEMPERATURE (°F)
FEBRUARY

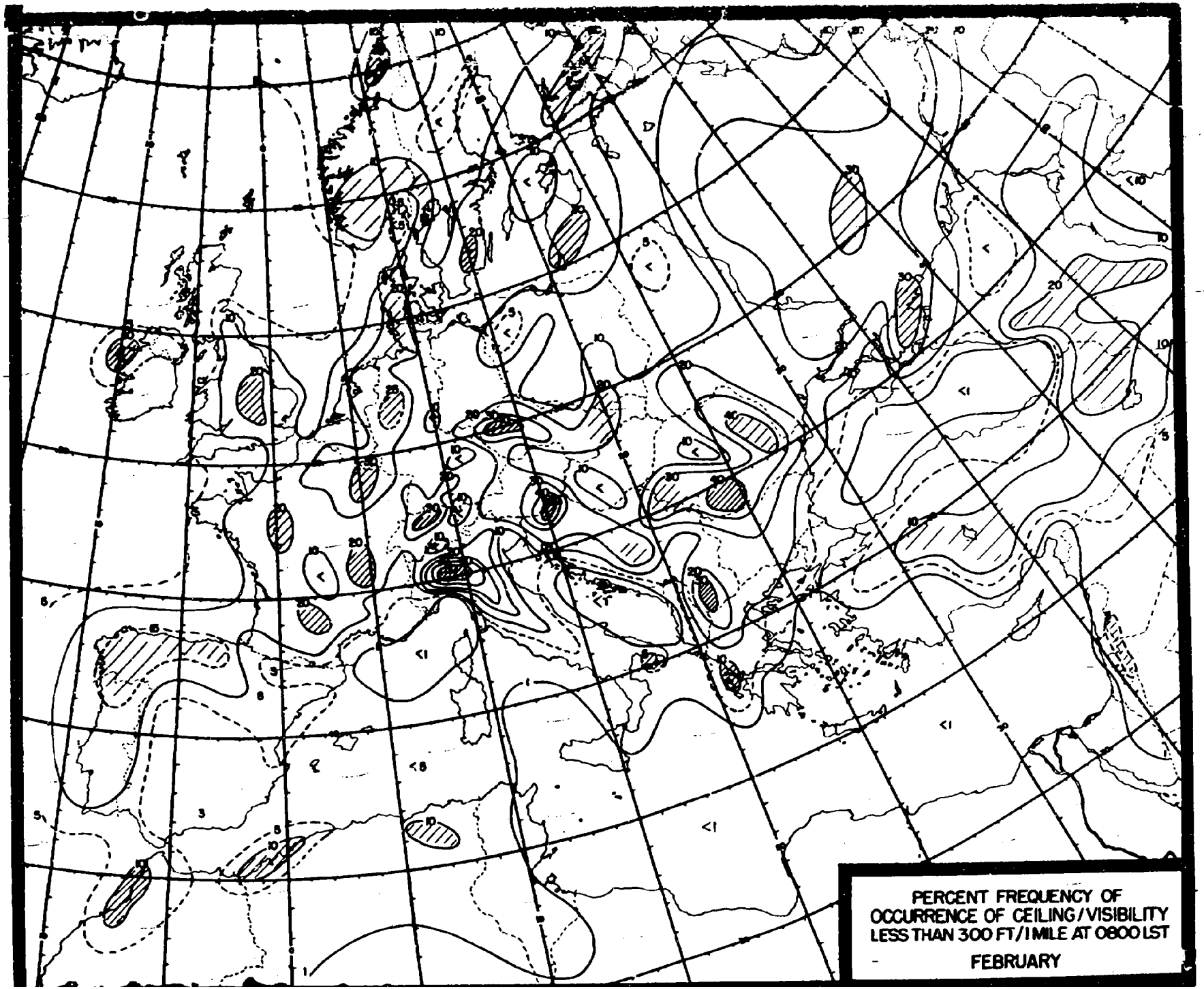

EXTREME MINIMUM
TEMPERATURE (°F)
FEBRUARY

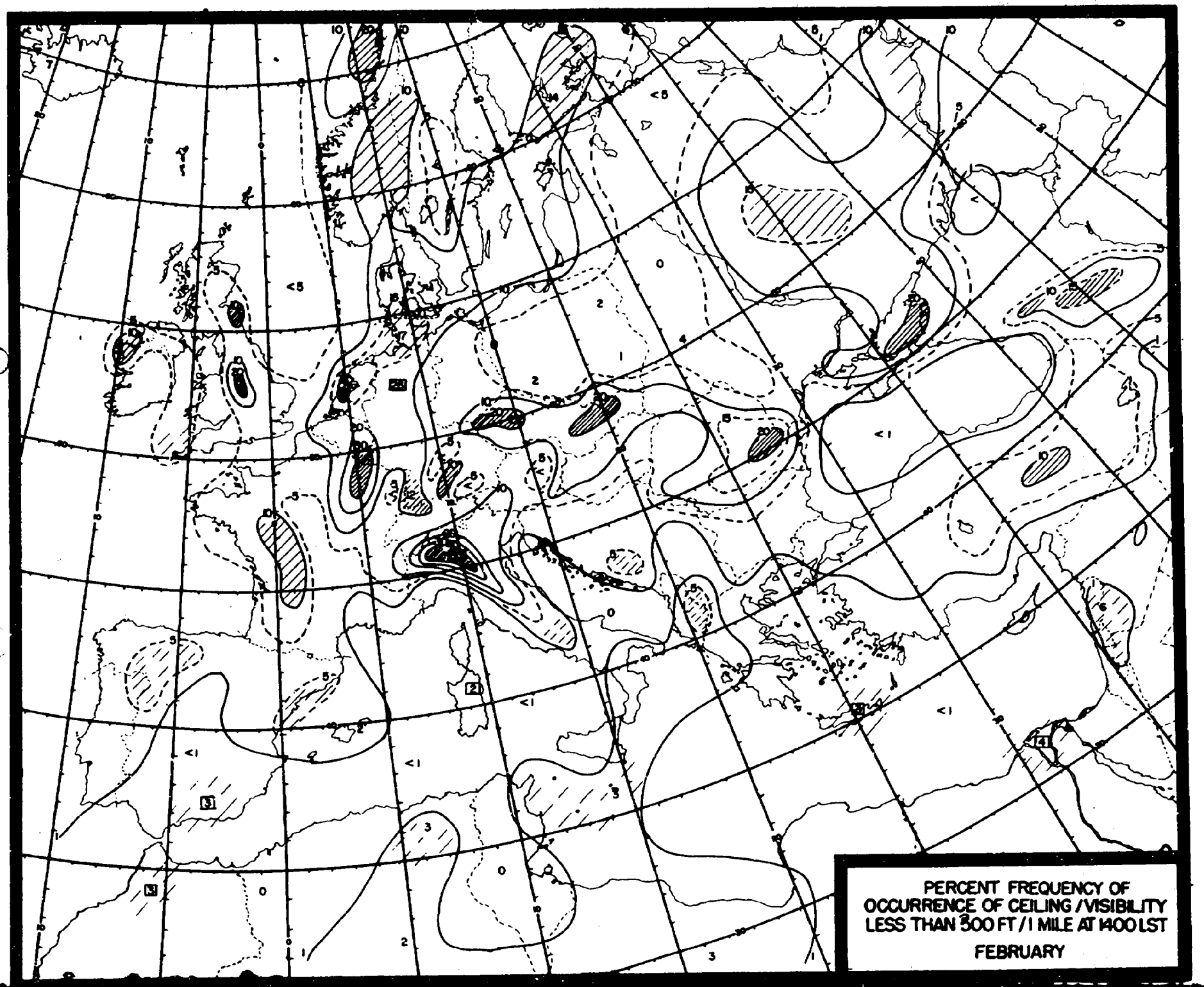

MEAN MONTHLY
PRECIPITATION (IN)
FEBRUARY

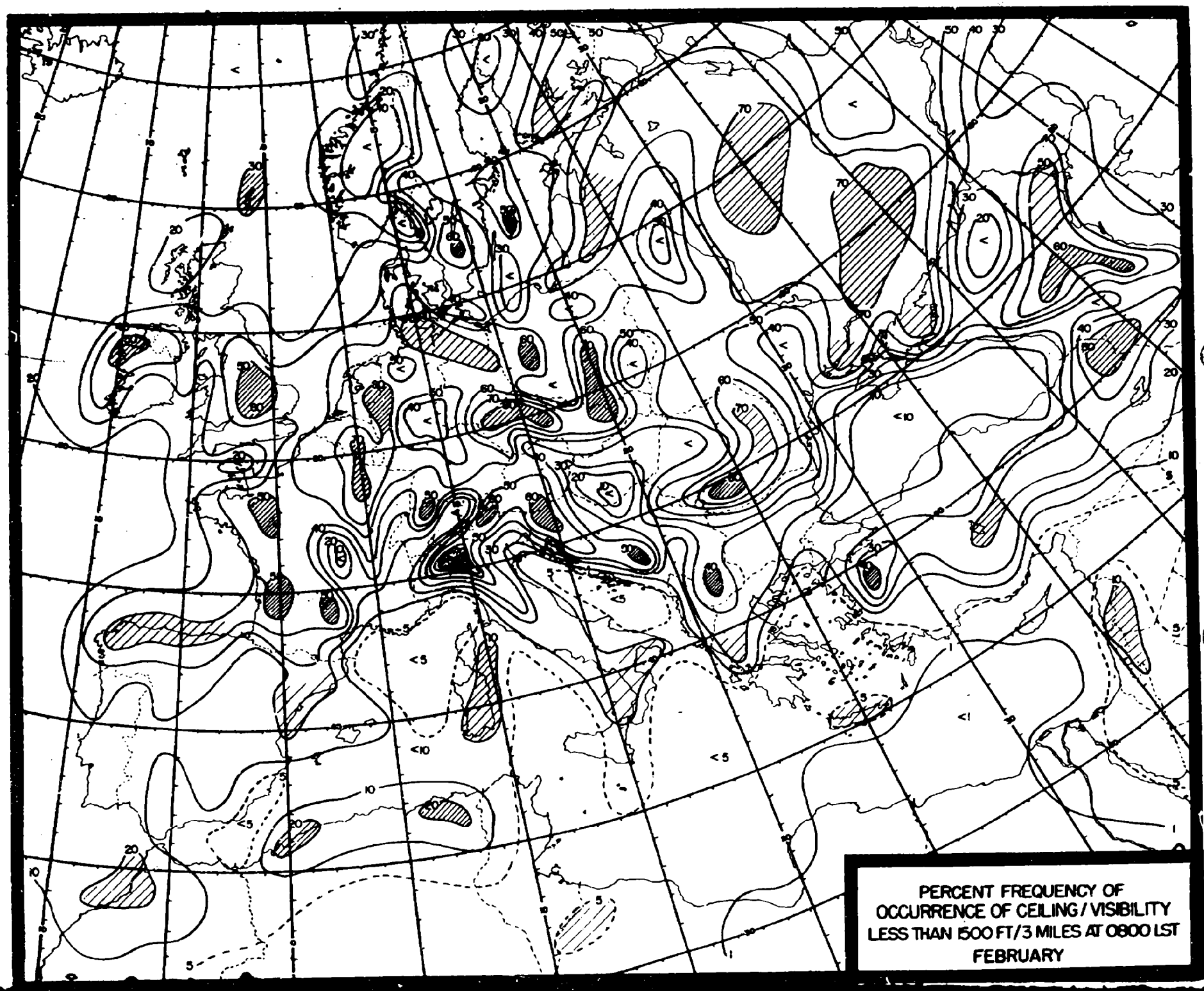


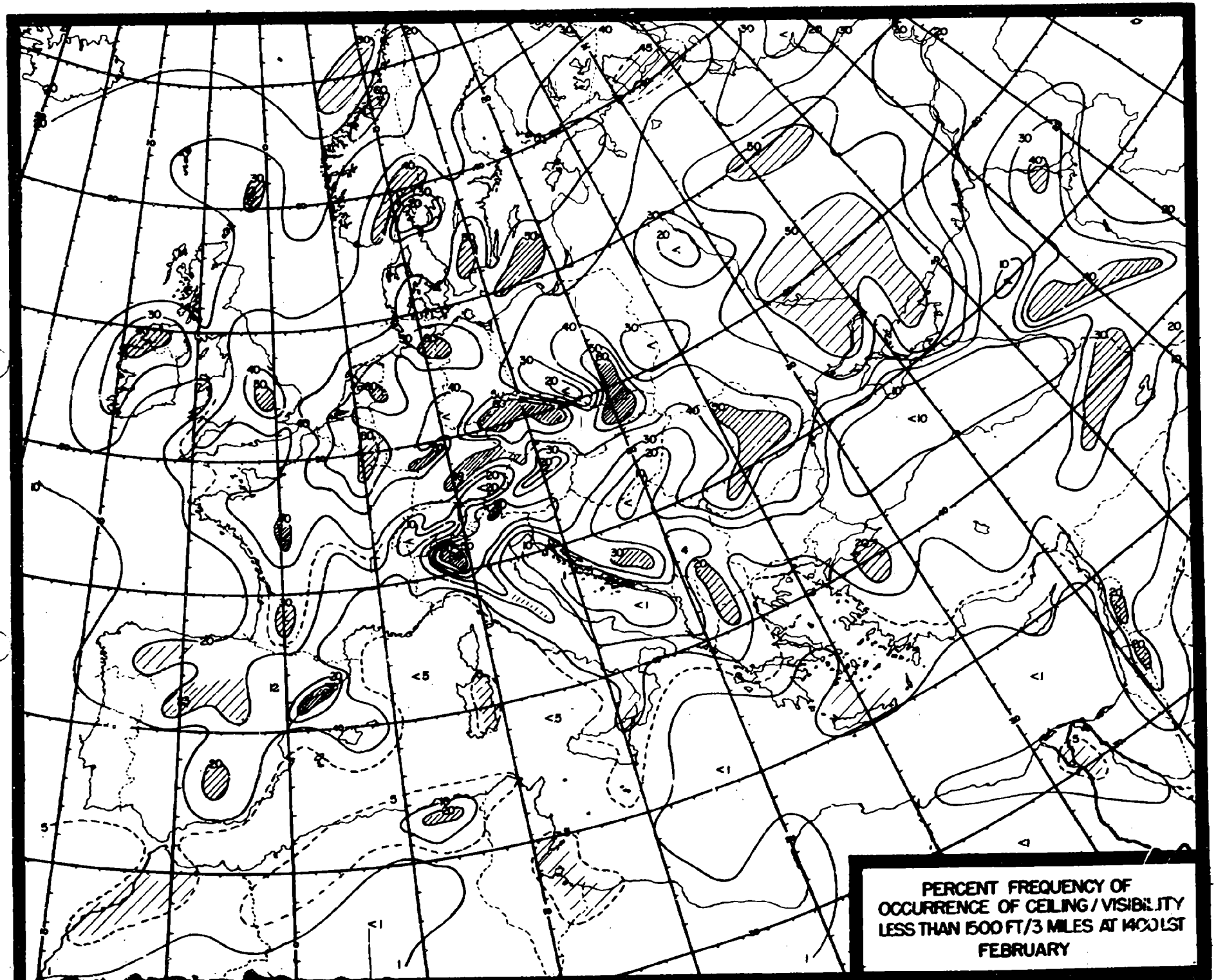
MEAN NUMBER OF
PRECIPITATION DAYS
FEBRUARY

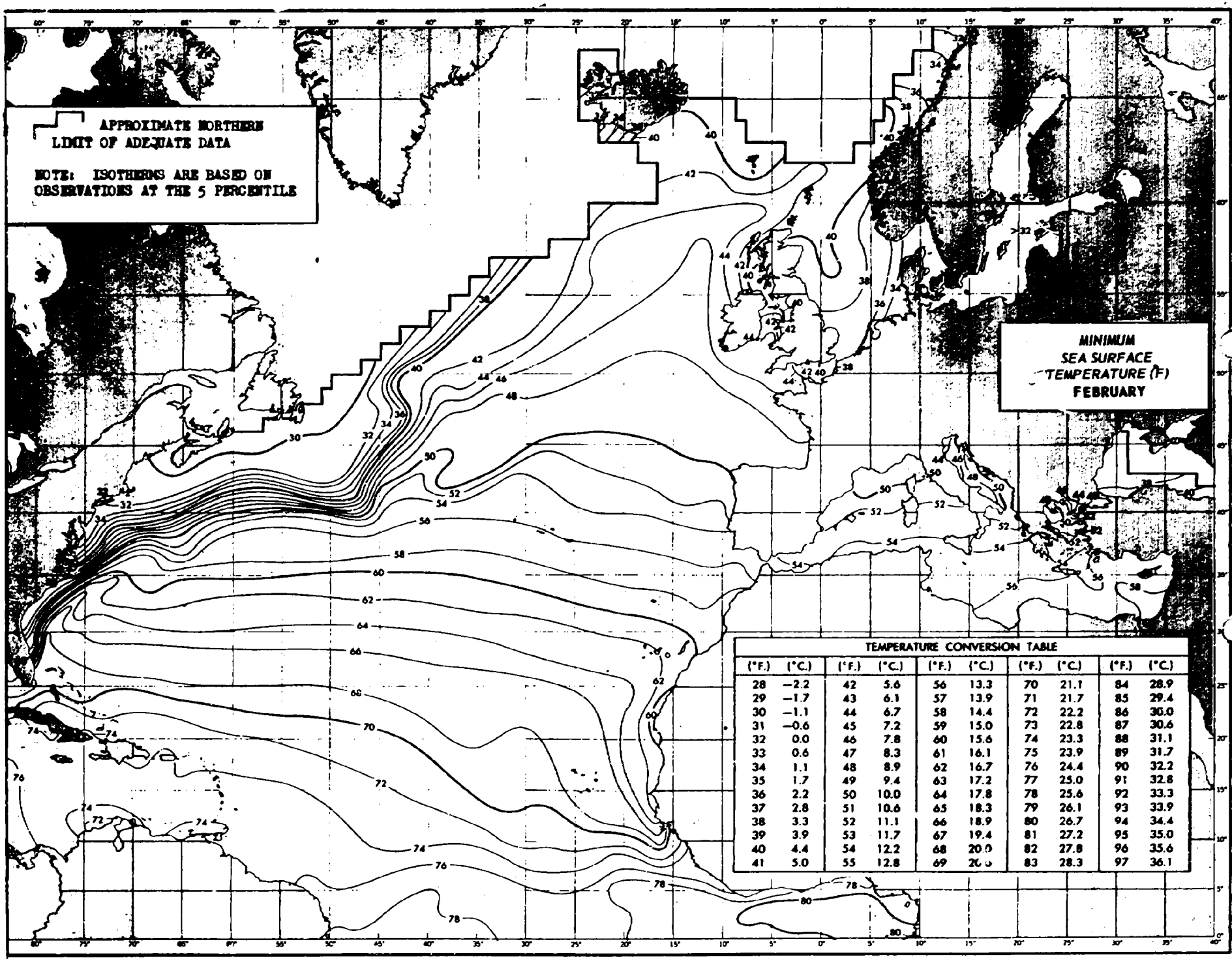

MEAN NUMBER OF
THUNDERSTORM DAYS
FEBRUARY


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING/VISIBILITY
LESS THAN 300 FT/1 MILE AT 0800 LST
FEBRUARY


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 500 FT / 1 MILE AT 1400 LST
FEBRUARY

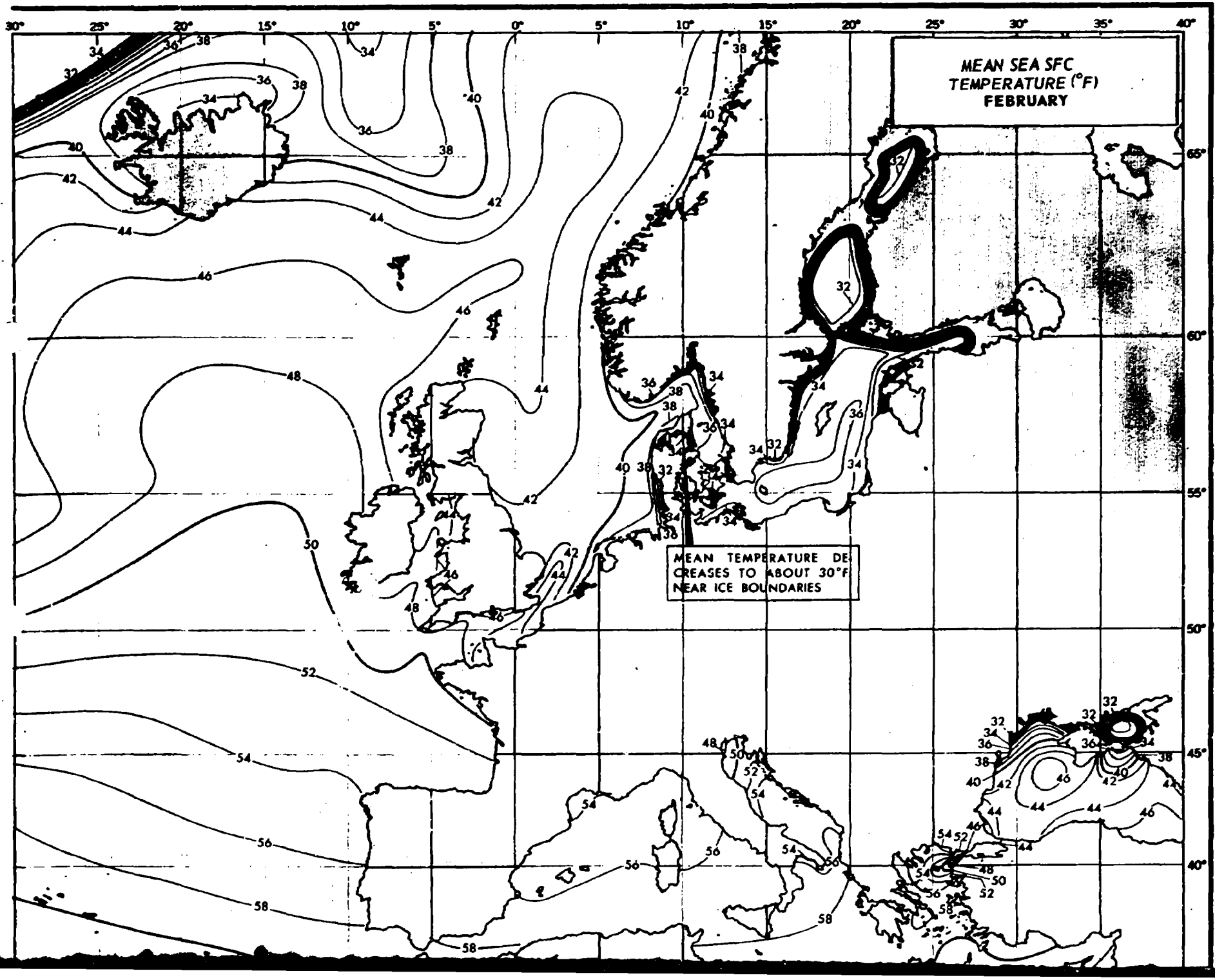

PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 0800 LST
FEBRUARY

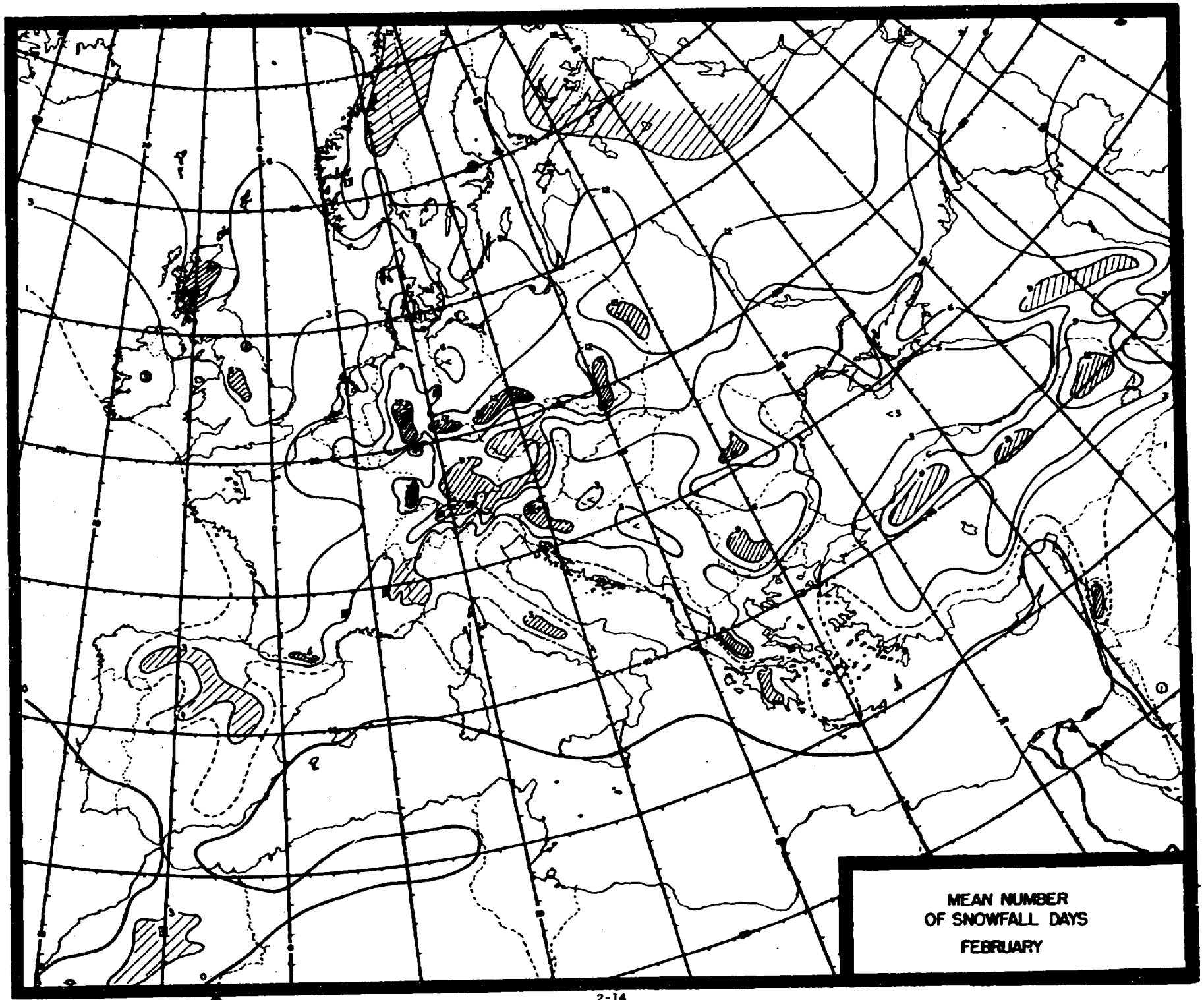

PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 1400 LST
FEBRUARY

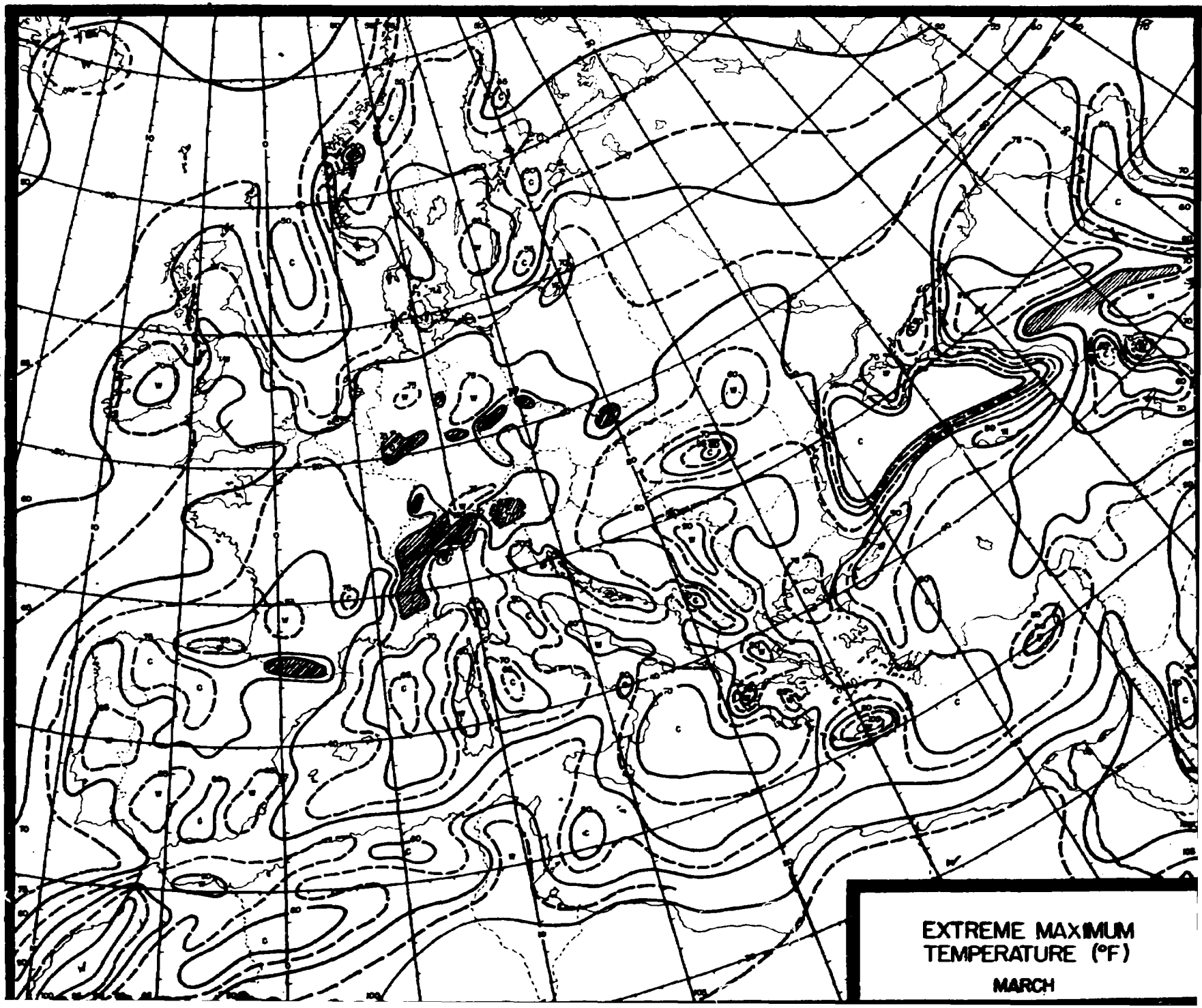


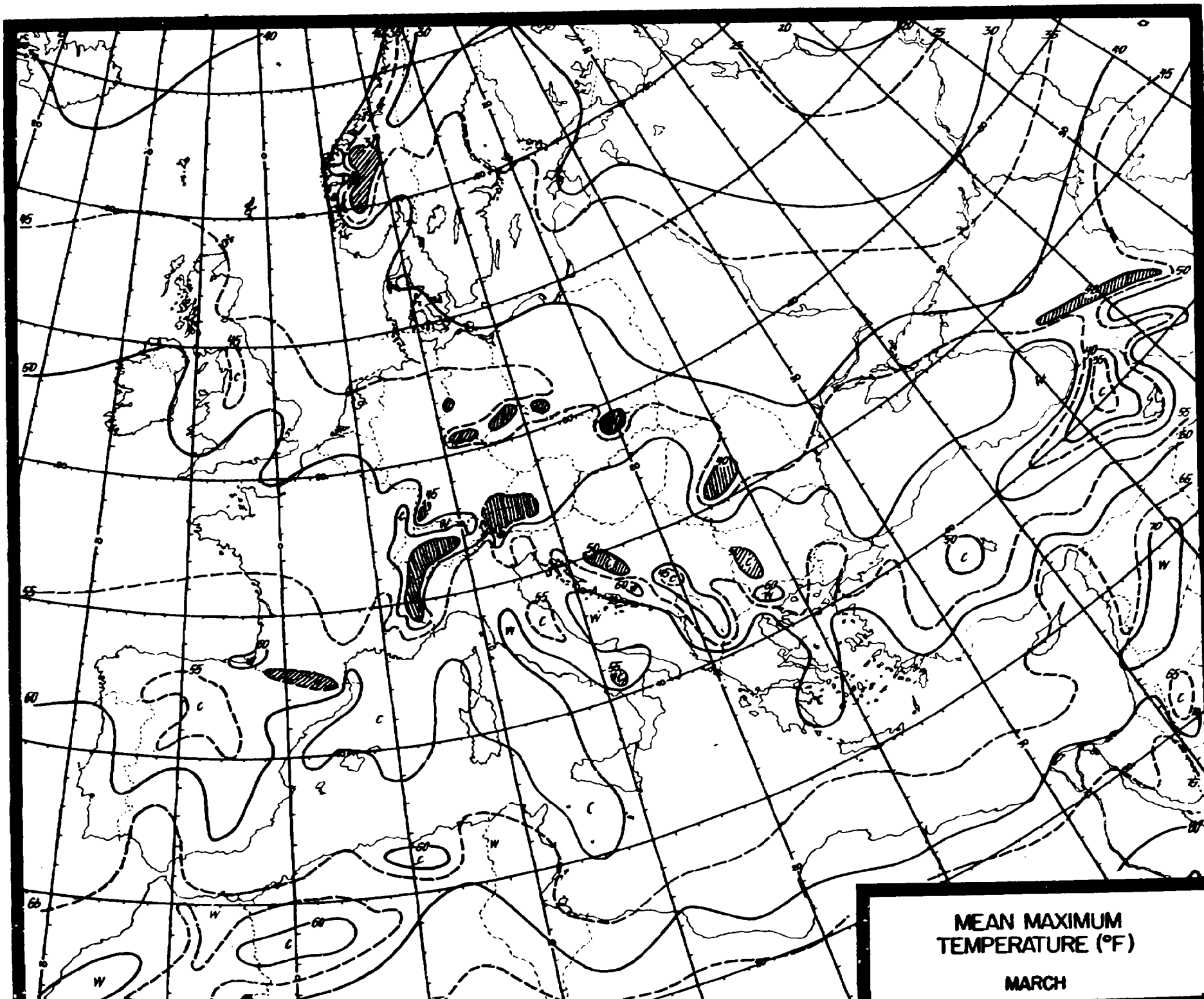
TEMPERATURE CONVERSION TABLE

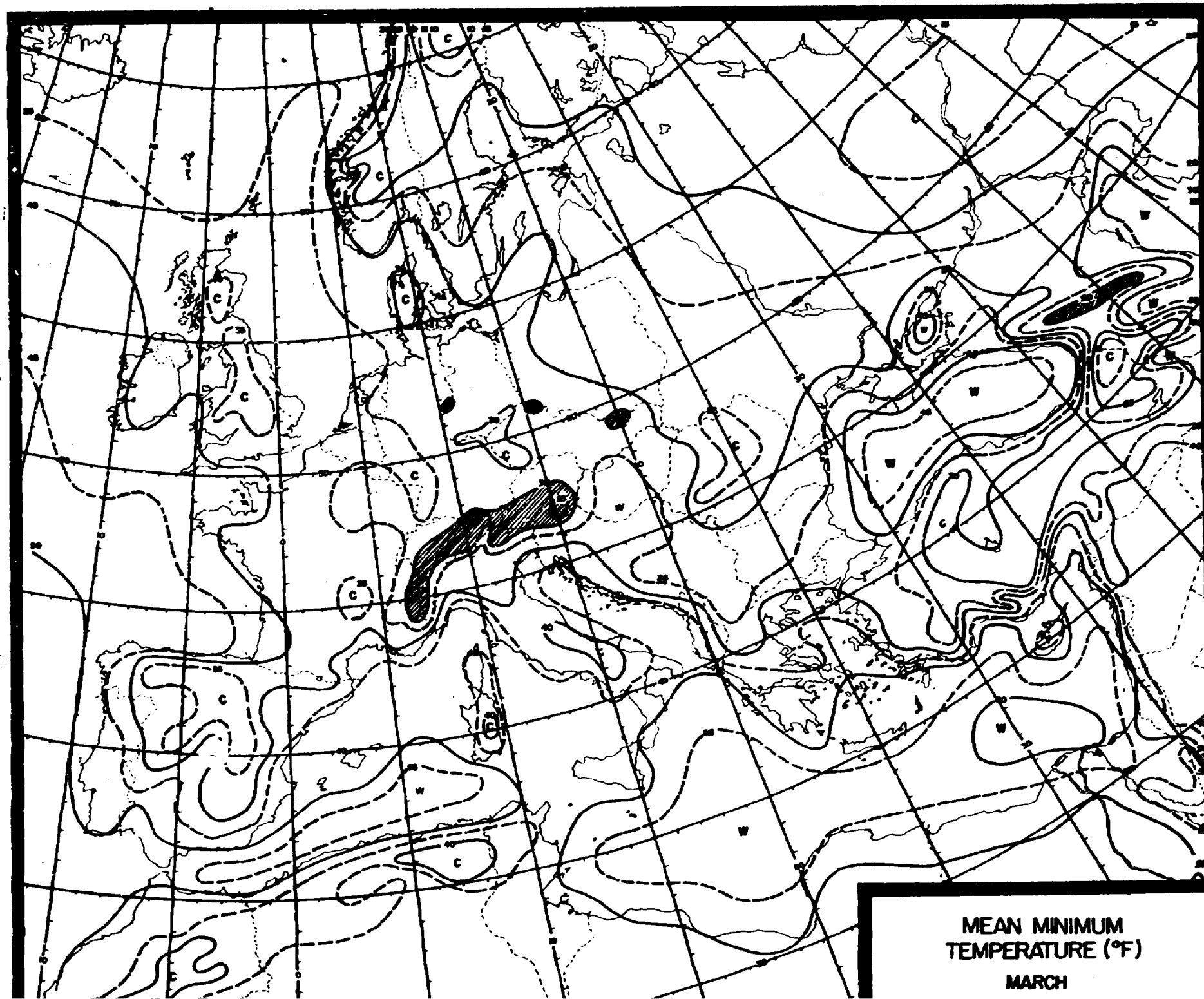
(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)
28	−2.2	42	5.6	56	13.3	70	21.1	84	28.9
29	−1.7	43	6.1	57	13.9	71	21.7	85	29.4
30	−1.1	44	6.7	58	14.4	72	22.2	86	30.0
31	−0.6	45	7.2	59	15.0	73	22.8	87	30.6
32	0.0	46	7.8	60	15.6	74	23.3	88	31.1
33	0.6	47	8.3	61	16.1	75	23.9	89	31.7
34	1.1	48	8.9	62	16.7	76	24.4	90	32.2
35	1.7	49	9.4	63	17.2	77	25.0	91	32.8
36	2.2	50	10.0	64	17.8	78	25.6	92	33.3
37	2.8	51	10.6	65	18.3	79	26.1	93	33.9
38	3.3	52	11.1	66	18.9	80	26.7	94	34.4
39	3.9	53	11.7	67	19.4	81	27.2	95	35.0
40	4.4	54	12.2	68	20.0	82	27.8	96	35.6
41	5.0	55	12.8	69	20.6	83	28.3	97	36.1


MEAN SEA SFC
TEMPERATURE (°F)
FEBRUARY
MEAN TEMPERATURE DE-
CREASES TO ABOUT 30°F
NEAR ICE BOUNDARIES

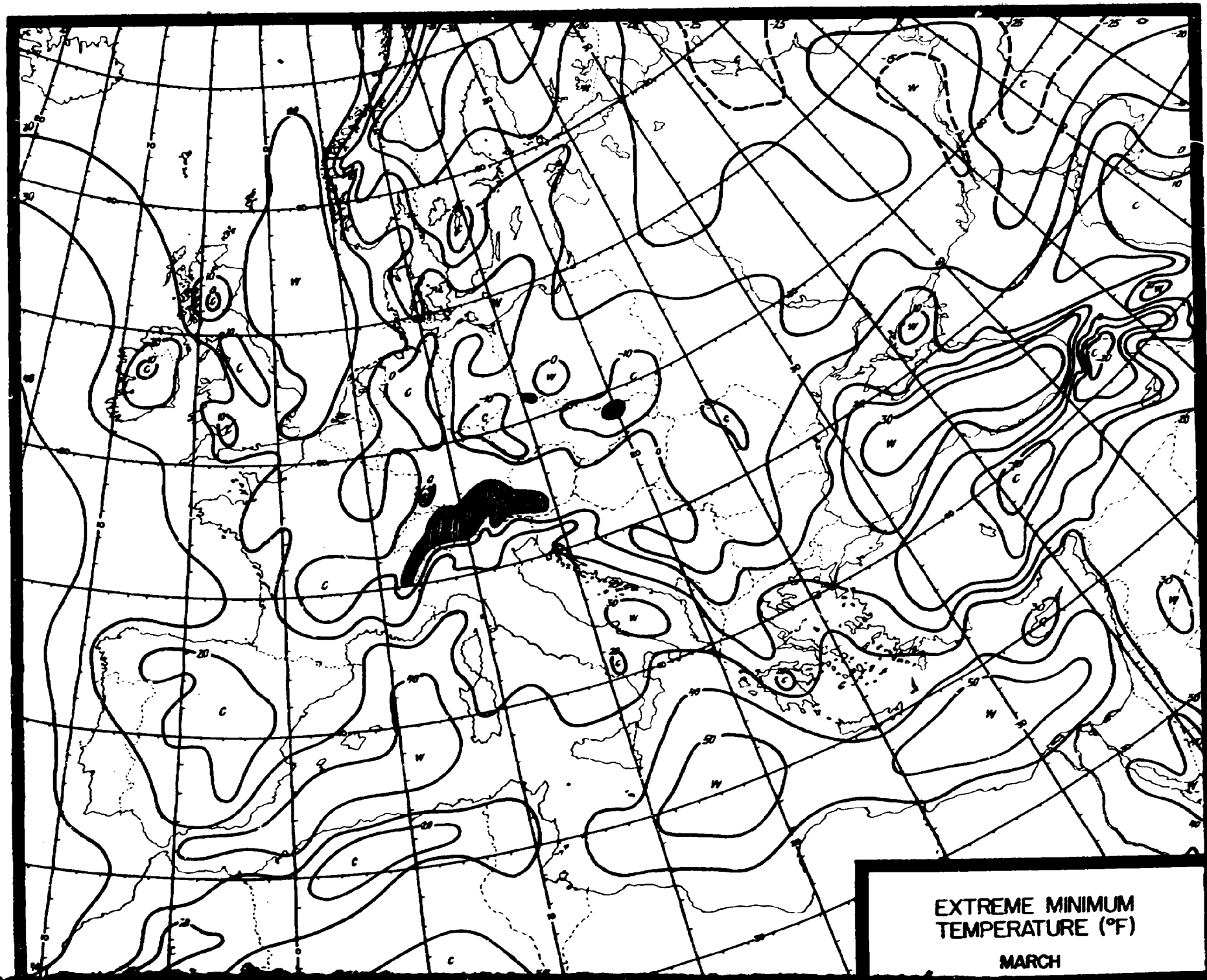

MEAN NUMBER
OF SNOWFALL DAYS
FEBRUARY


EXTREME MAXIMUM
TEMPERATURE (°F)
MARCH


MEAN MAXIMUM
TEMPERATURE (°F)
MARCH

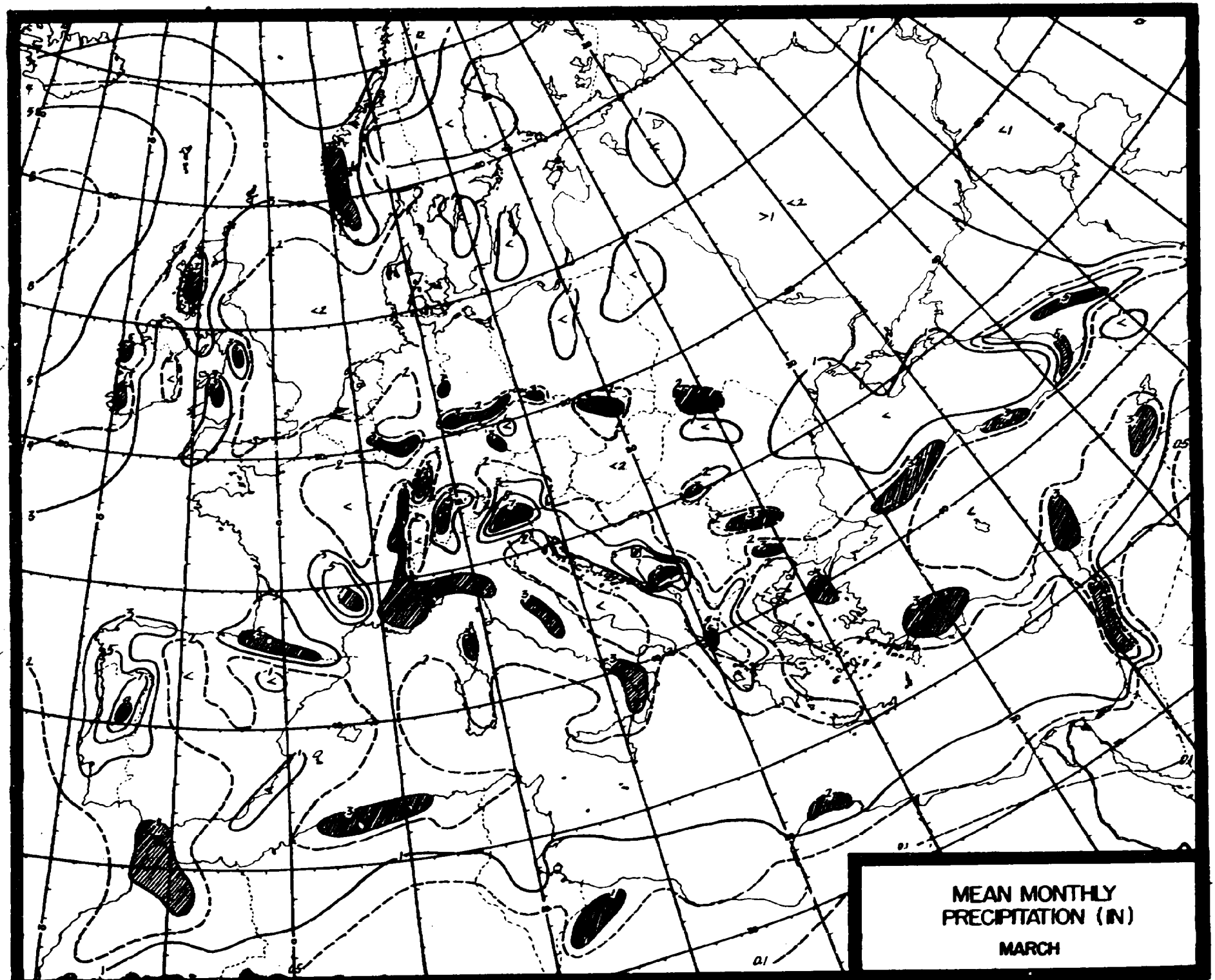


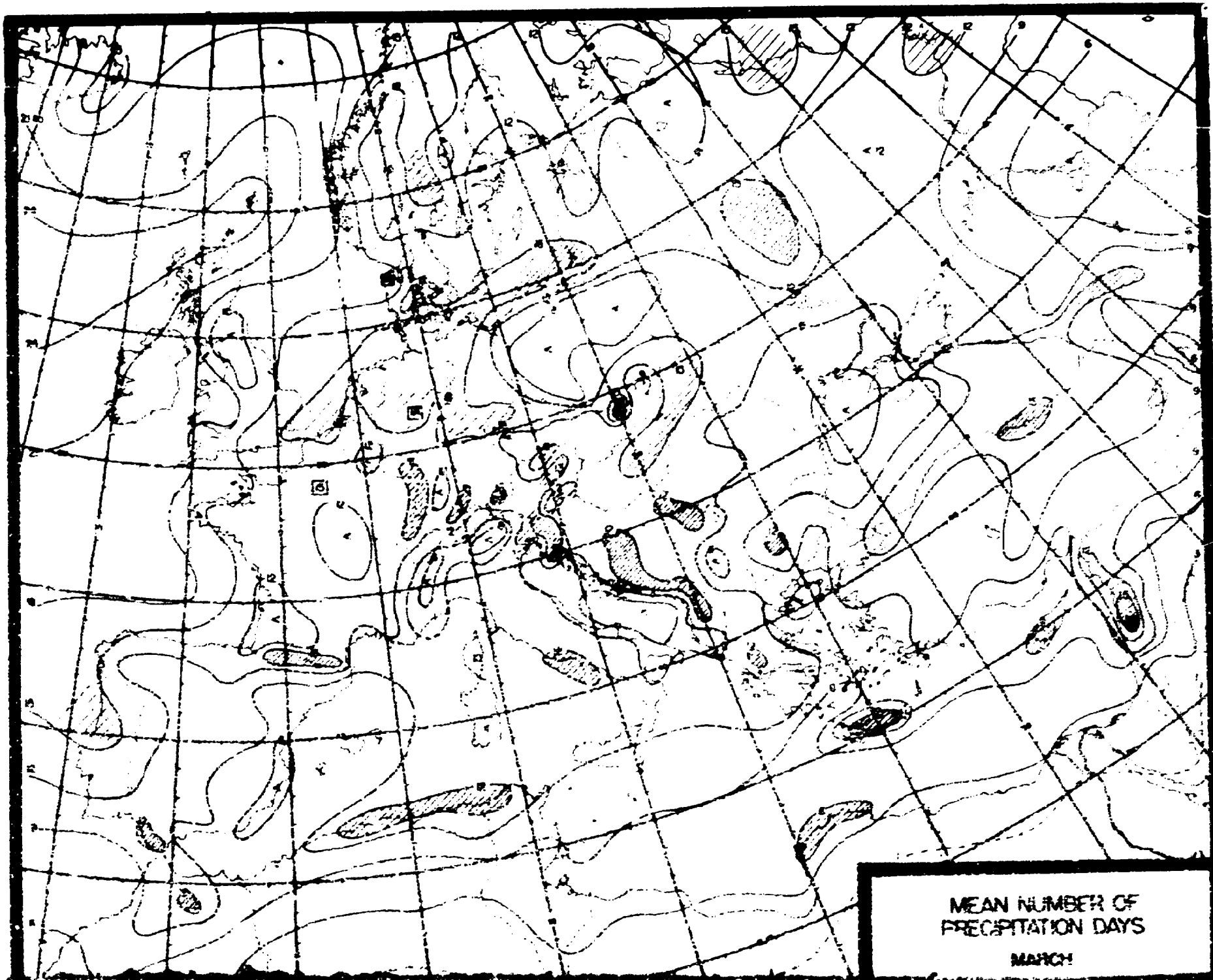
MEAN MINIMUM
TEMPERATURE (°F)
MARCH



EXTREME MINIMUM
TEMPERATURE (°F)

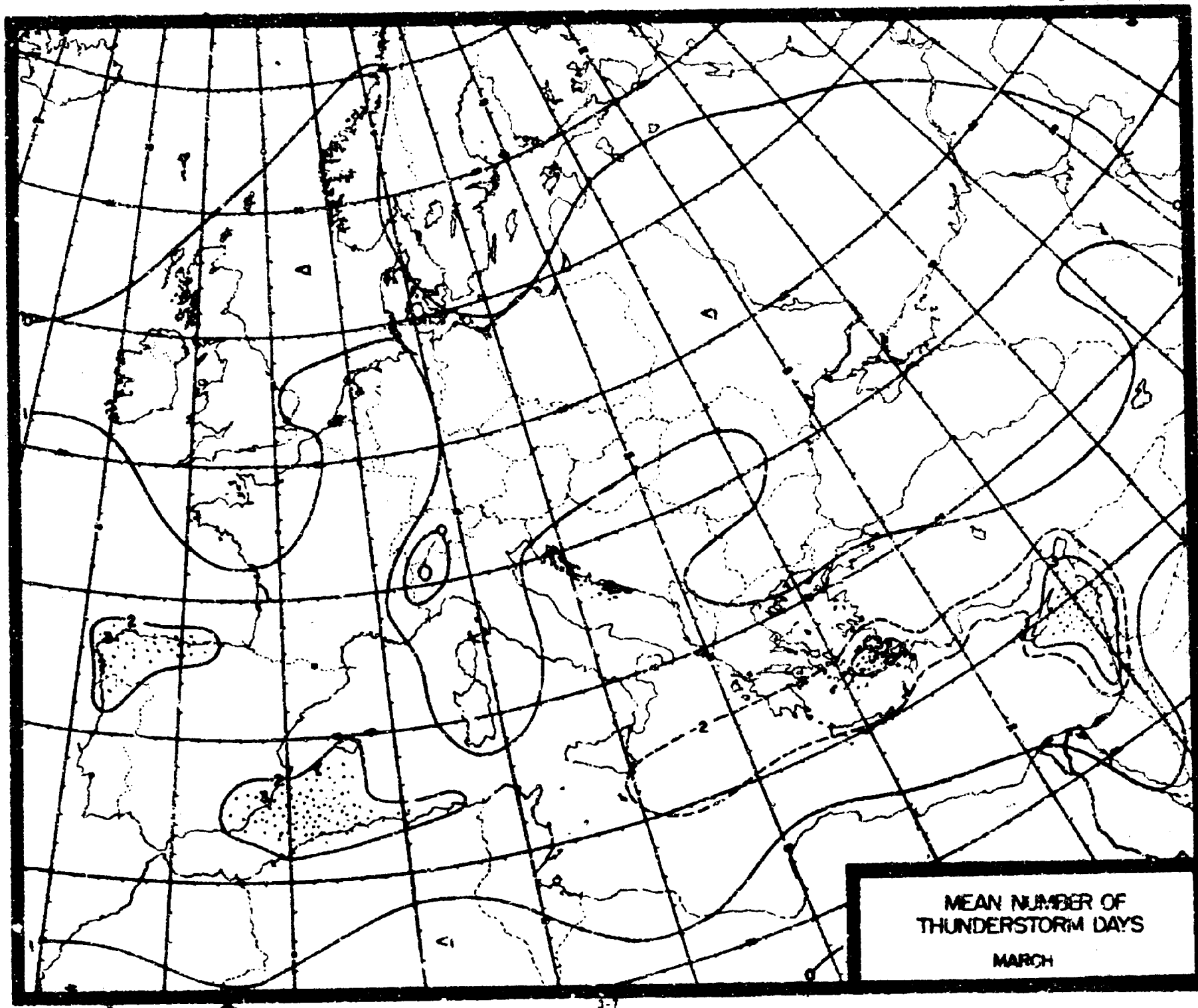
MARCH

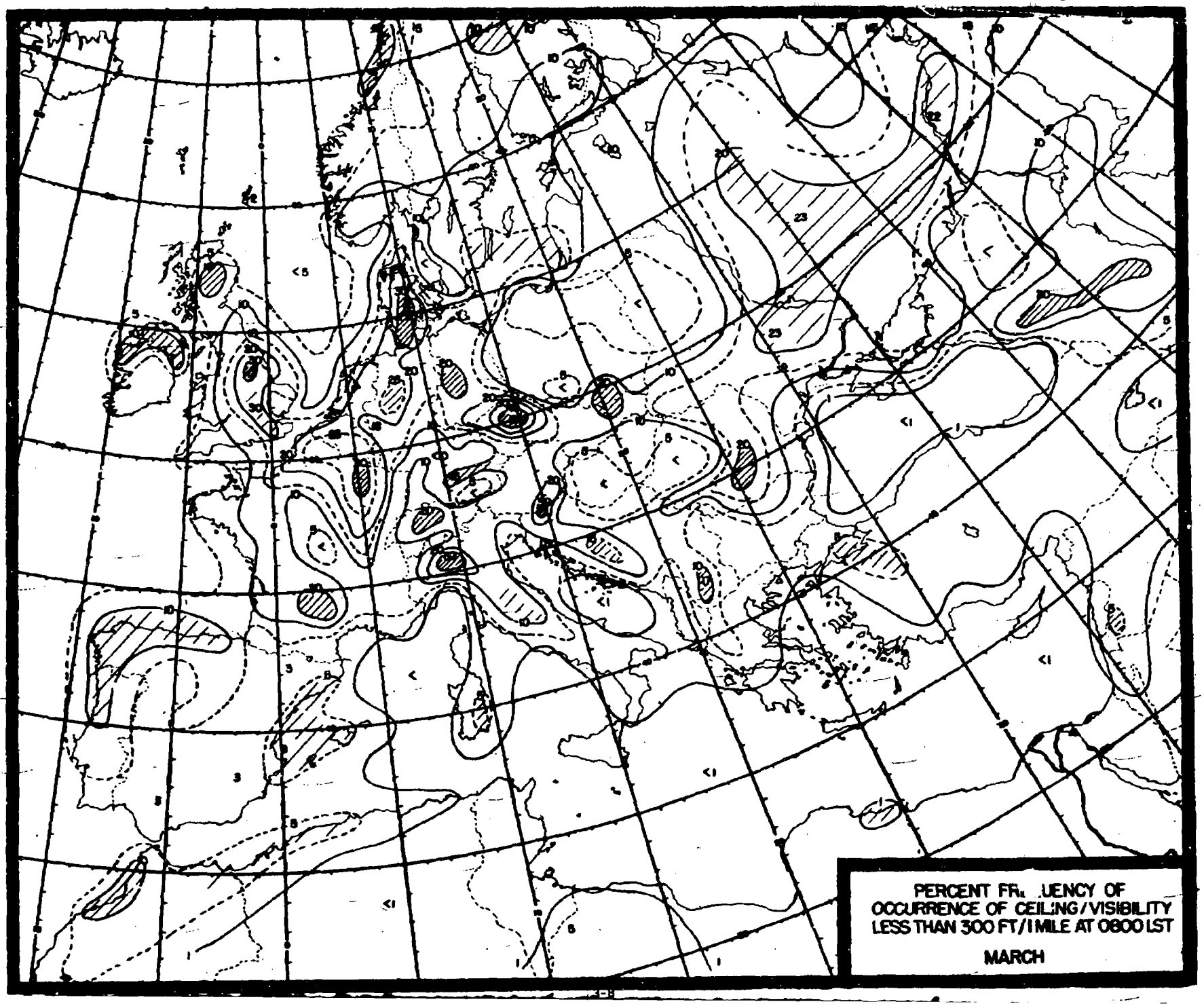

MEAN MONTHLY
PRECIPITATION (IN)
MARCH

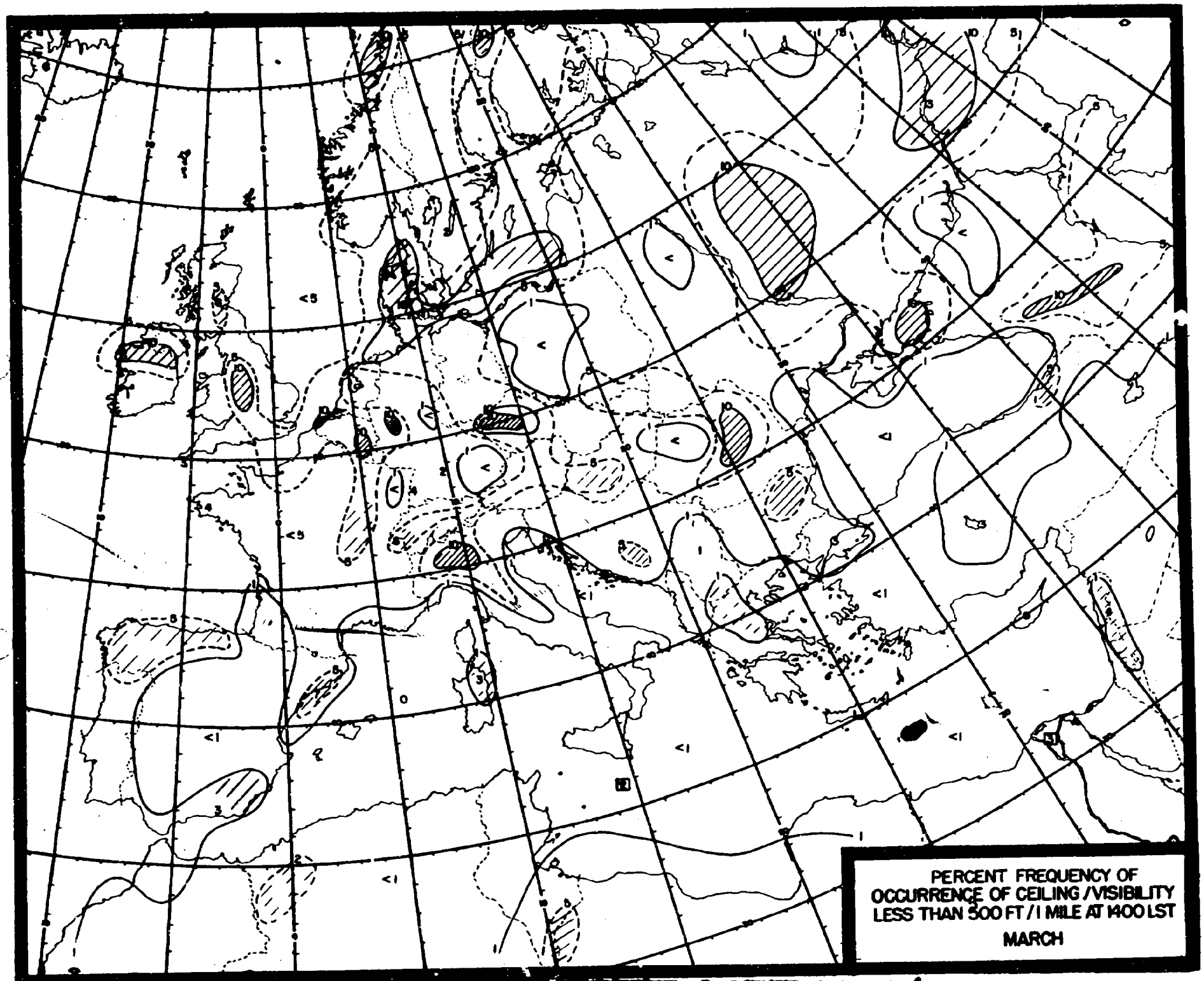


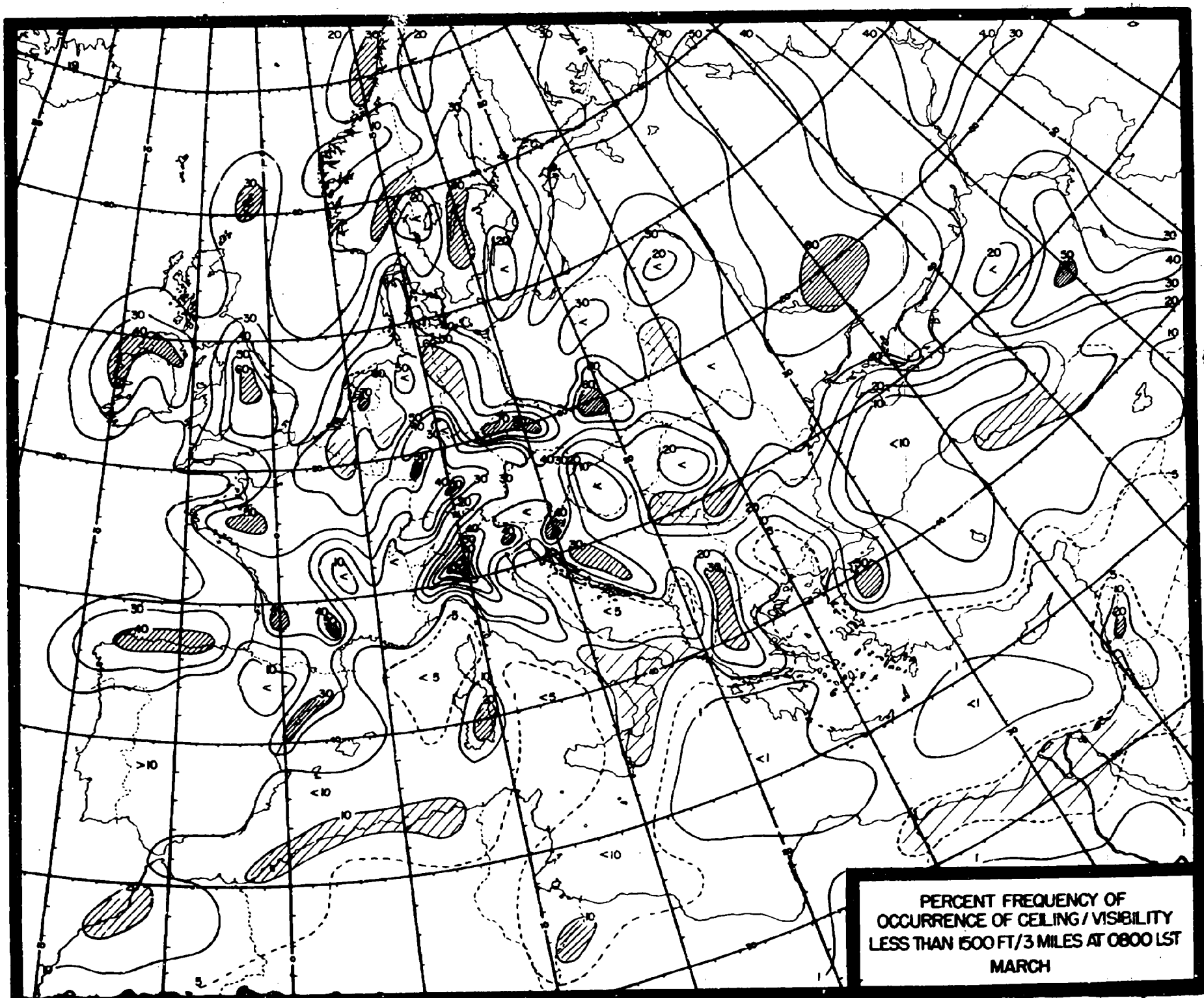
MEAN NUMBER OF
PRECIPITATION DAYS

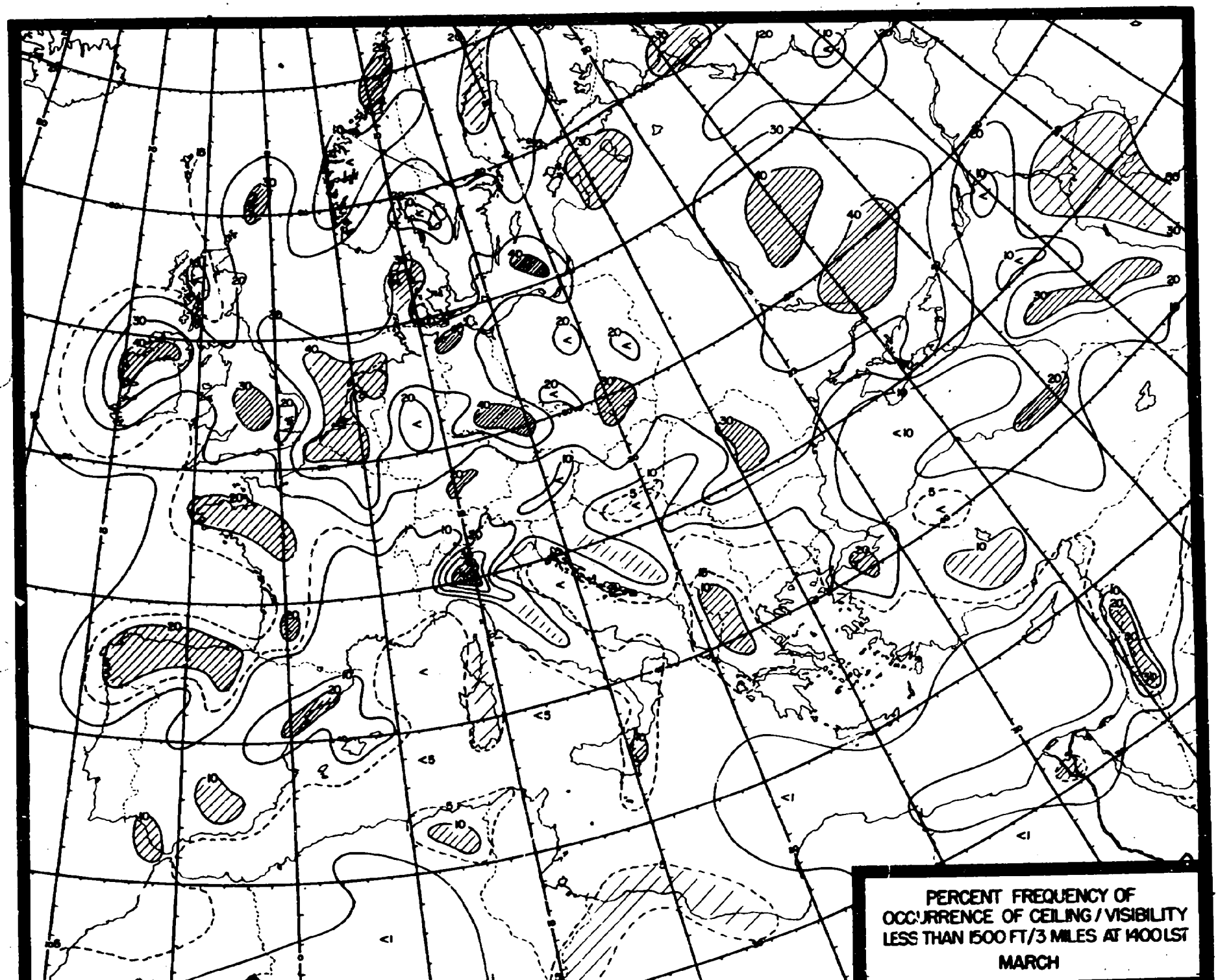
MARCH

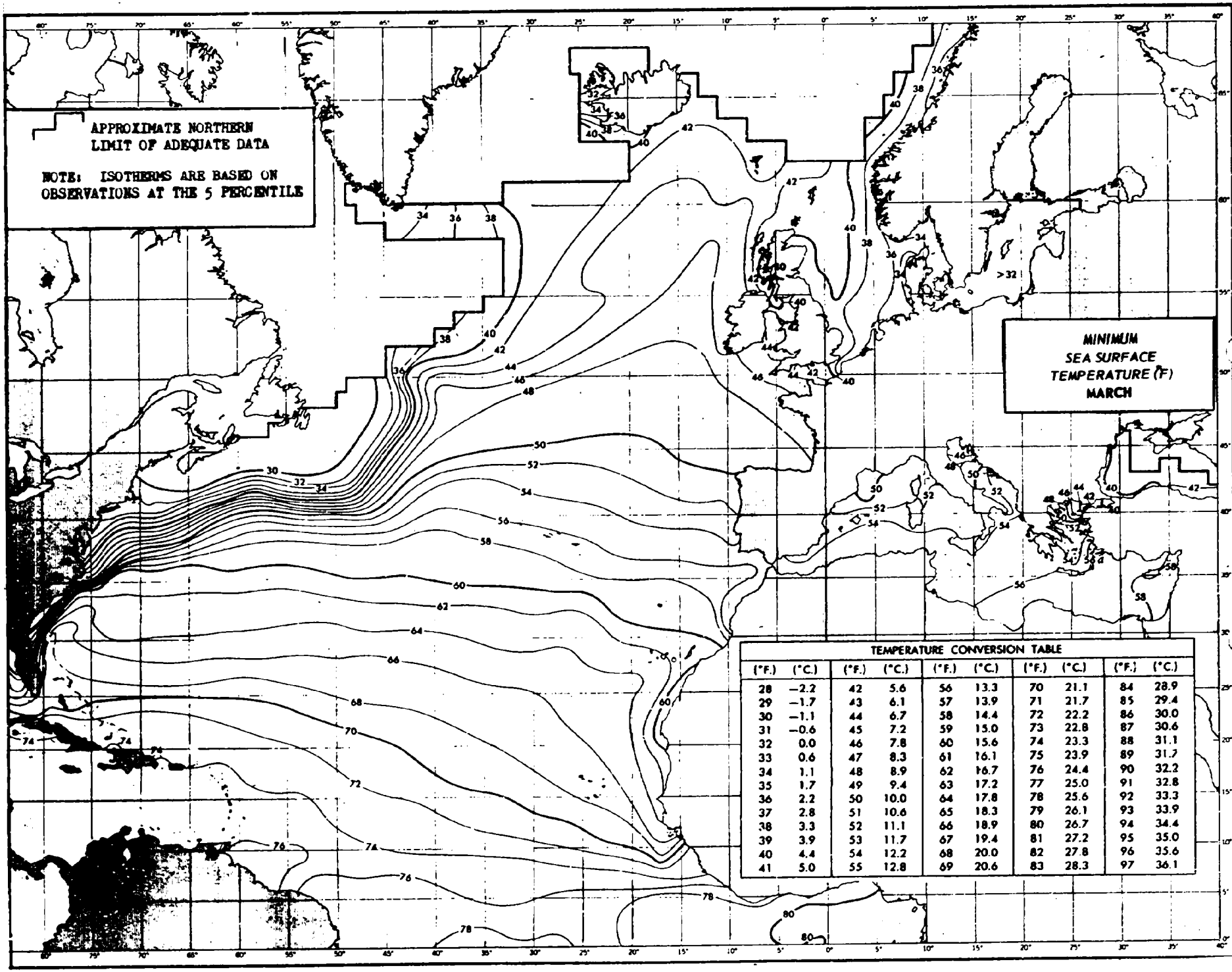

MEAN NUMBER OF
THUNDERSTORM DAYS
MARCH


PERCENT FR. .UENCY OF
OCCURRENCE OF CEILING/VISIBILITY
LESS THAN 300 FT/1 MILE AT 0800 LST
MARCH


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING /VISIBILITY
LESS THAN 500 FT / 1 MILE AT 1400 LST
MARCH

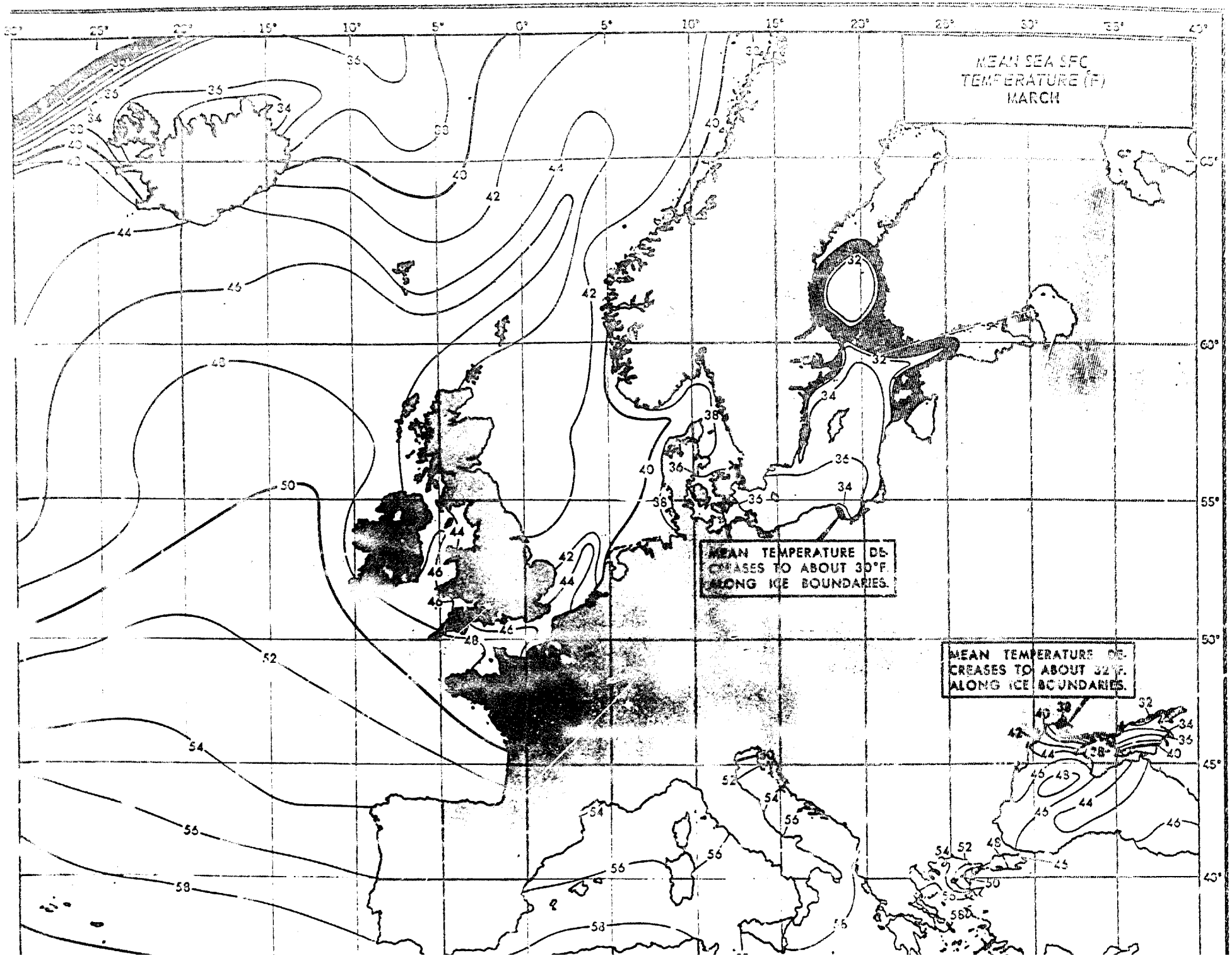

PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 0800 LST
MARCH

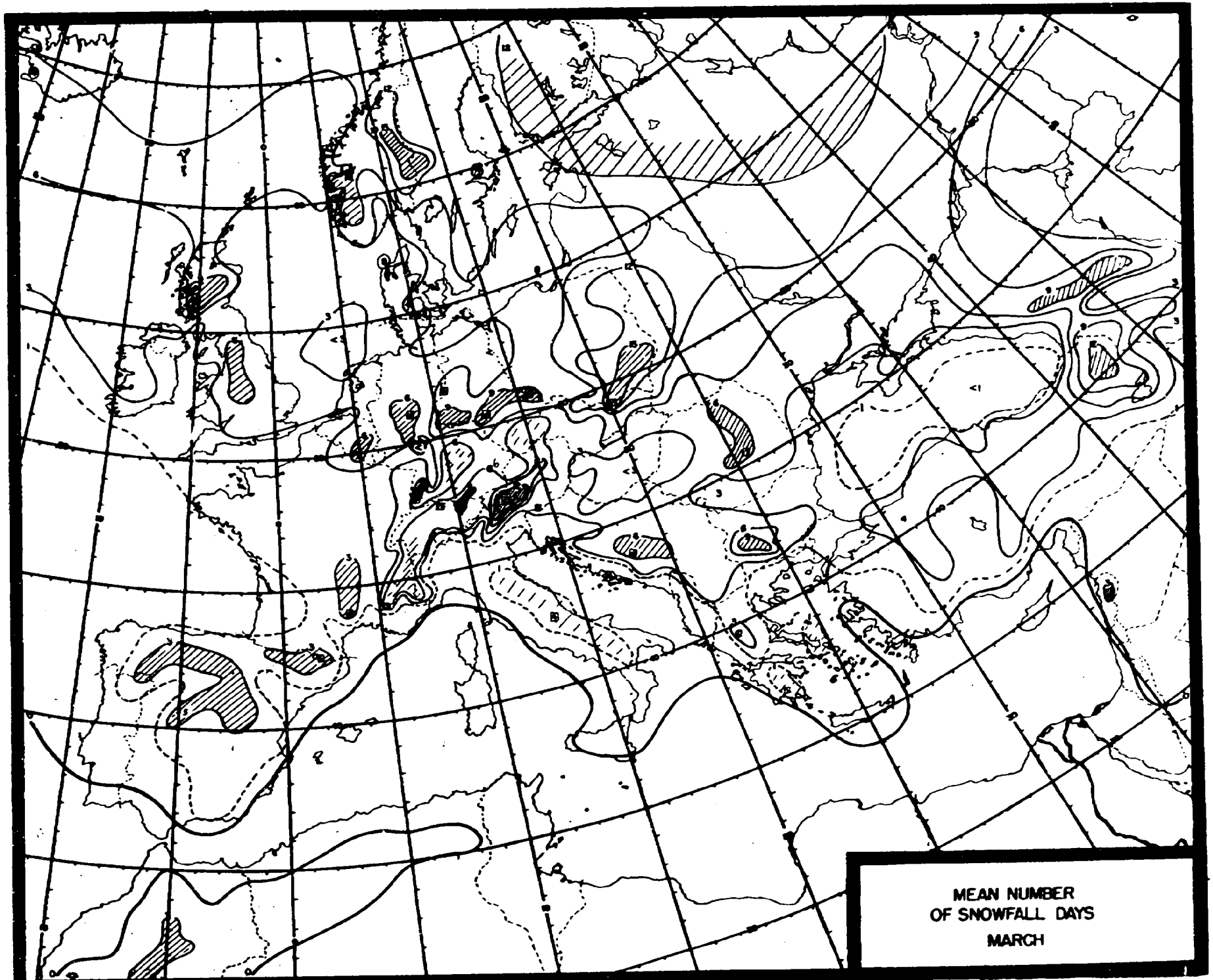

PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 1400 LST
MARCH

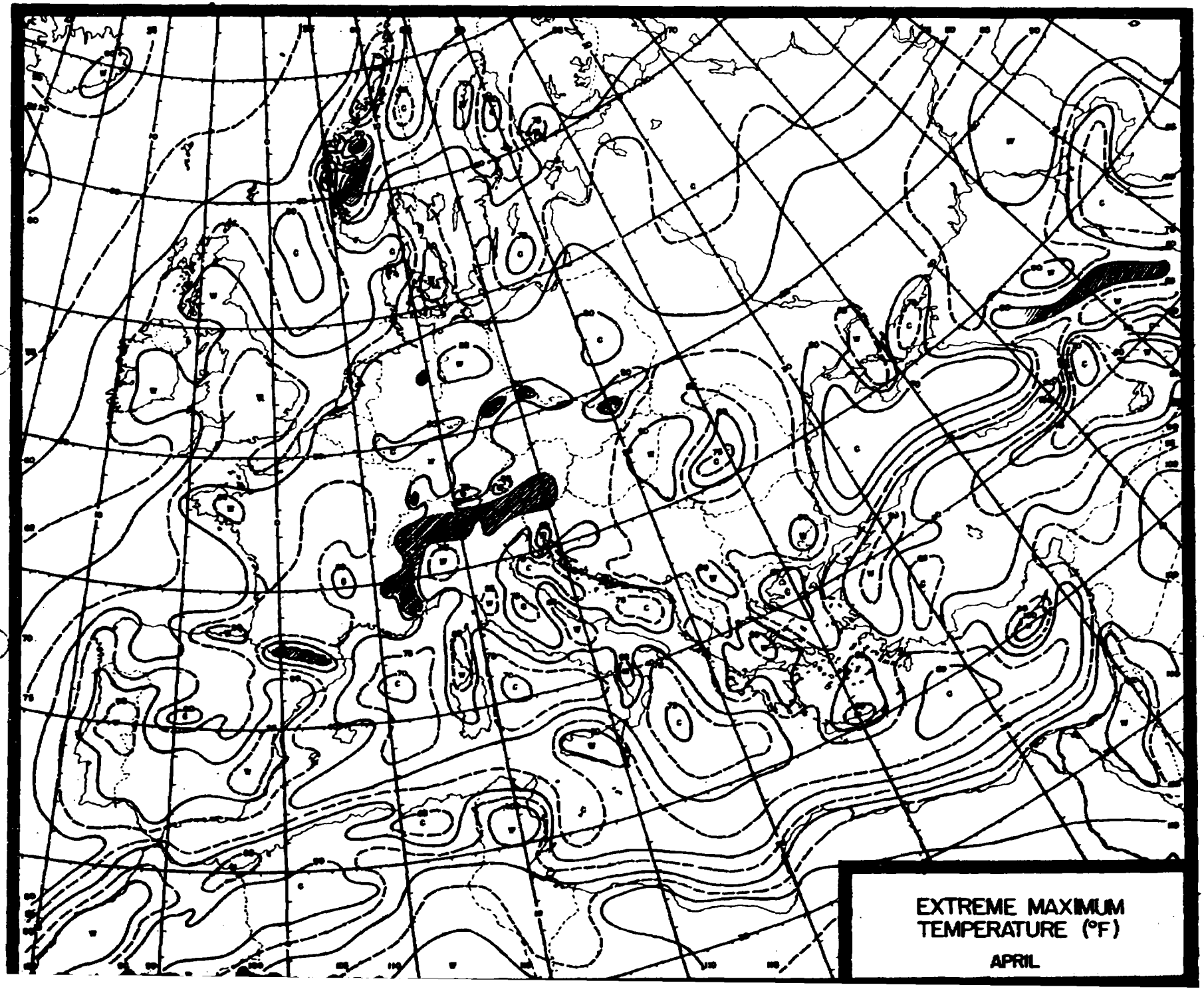


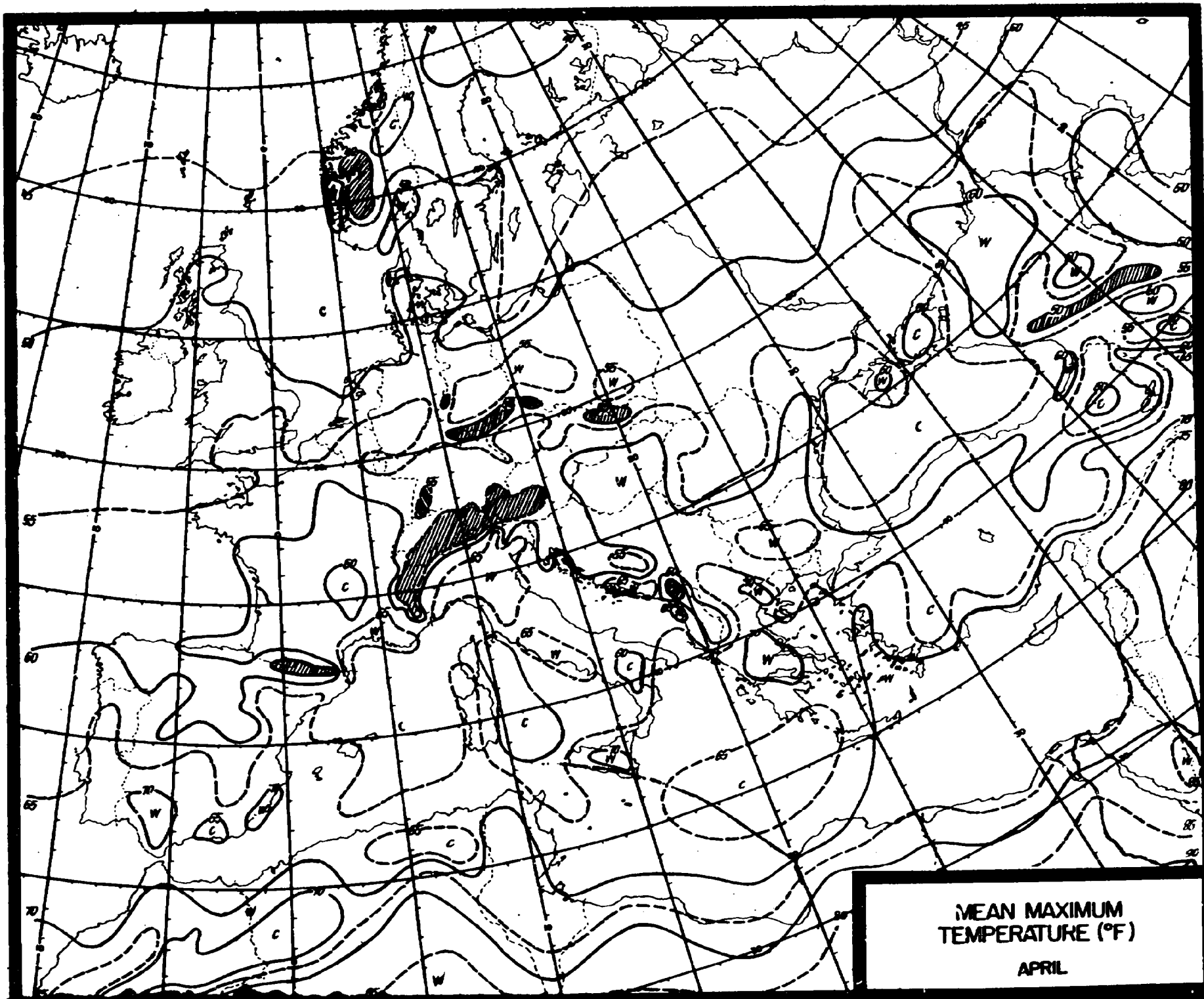
TEMPERATURE CONVERSION TABLE

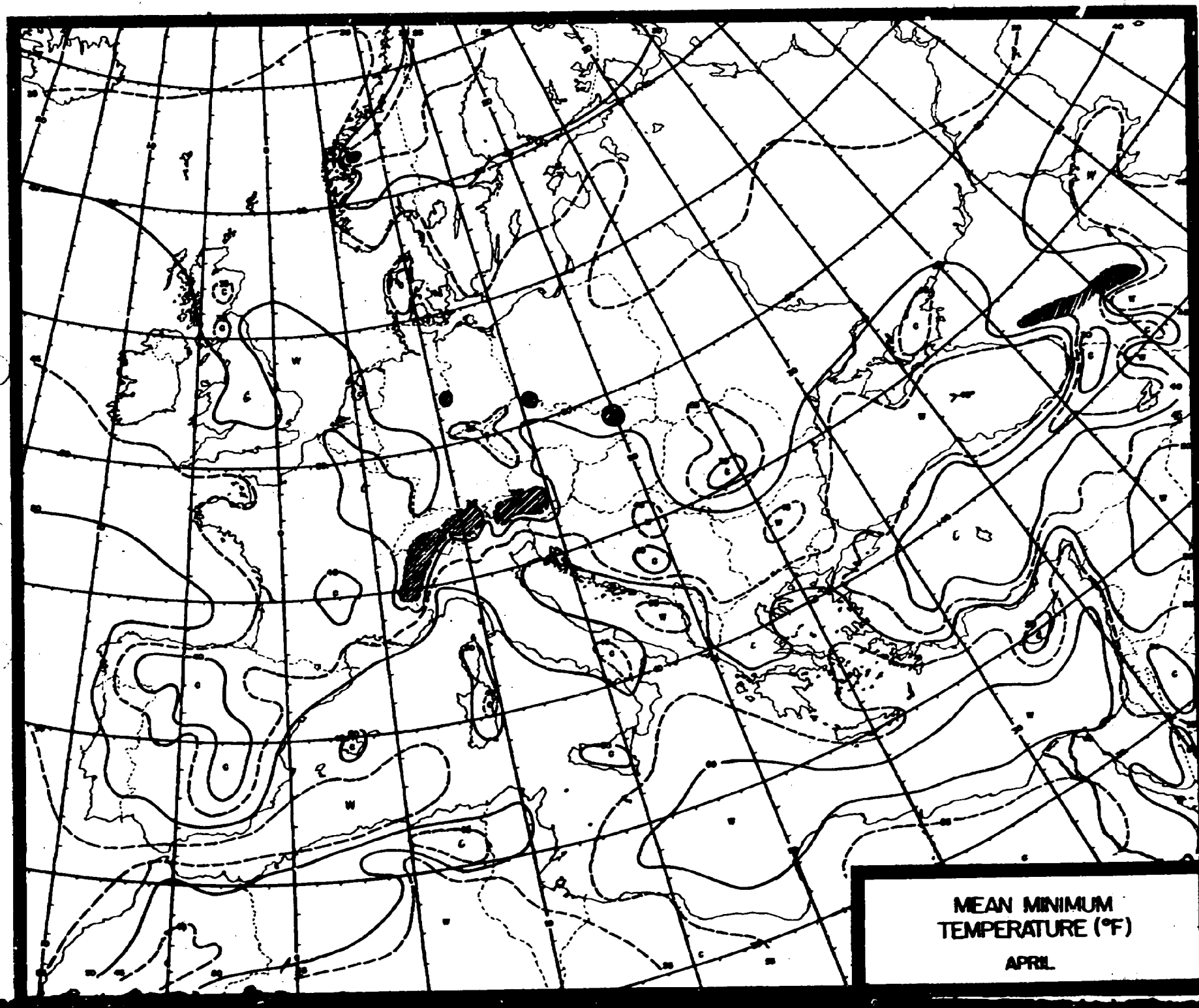
(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)
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33	0.6	47	8.3	61	16.1	75	23.9	89	31.7
34	1.1	48	8.9	62	16.7	76	24.4	90	32.2
35	1.7	49	9.4	63	17.2	77	25.0	91	32.8
36	2.2	50	10.0	64	17.8	78	25.6	92	33.3
37	2.8	51	10.6	65	18.3	79	26.1	93	33.9
38	3.3	52	11.1	66	18.9	80	26.7	94	34.4
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41	5.0	55	12.8	69	20.6	83	28.3	97	36.1

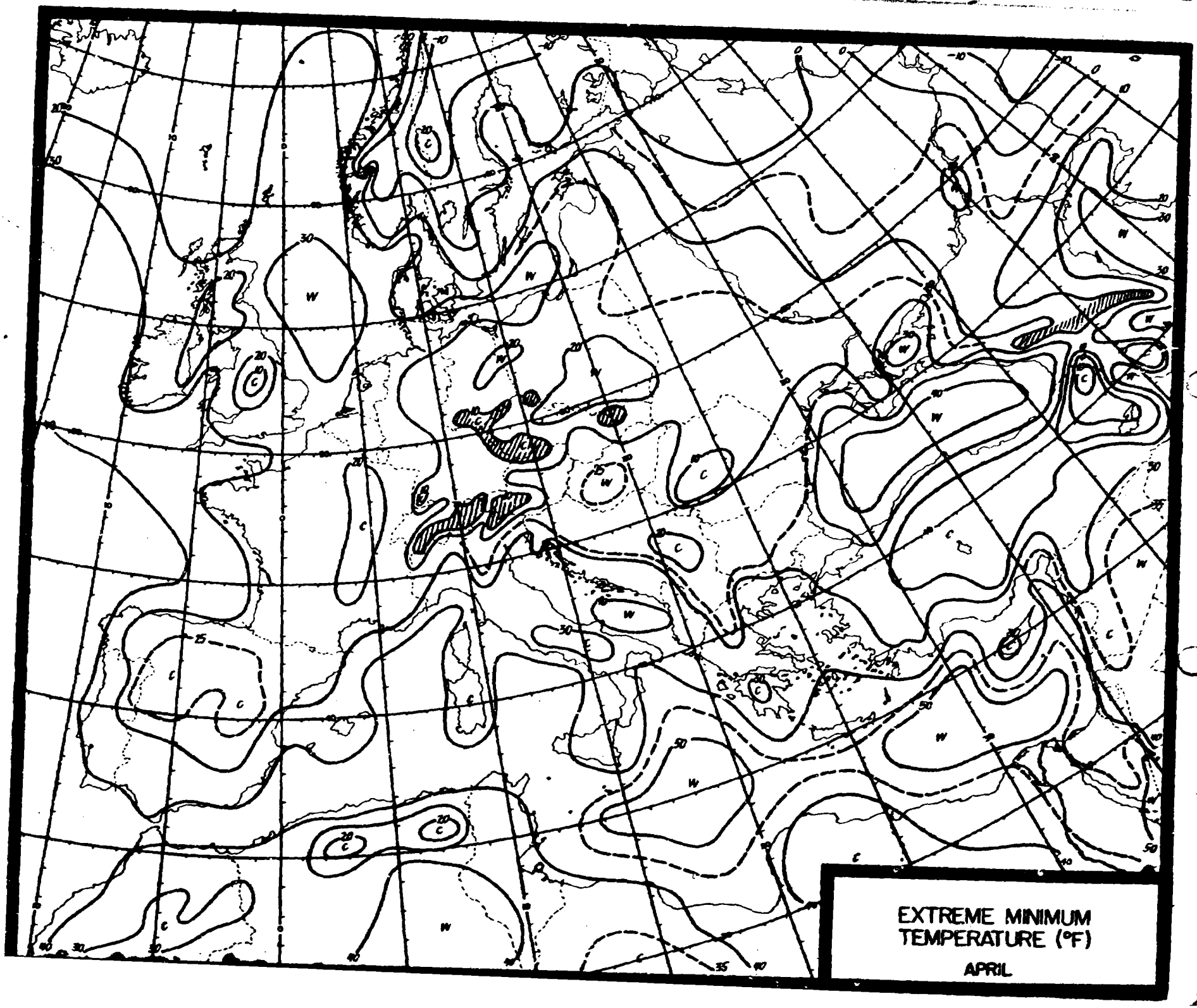

MEAN SEA SFC TEMPERATURE (F) MARCH
MEAN TEMPERATURE DECREASES TO ABOUT 30°F. ALONG ICE BOUNDARIES.
MEAN TEMPERATURE DECREASES TO ABOUT 32°F. ALONG ICE BOUNDARIES.
25° 20° 15° 10° 5° 0° 5° 10° 15° 20° 25° 30° 35° 40°
65° 60° 55° 50° 45° 40°

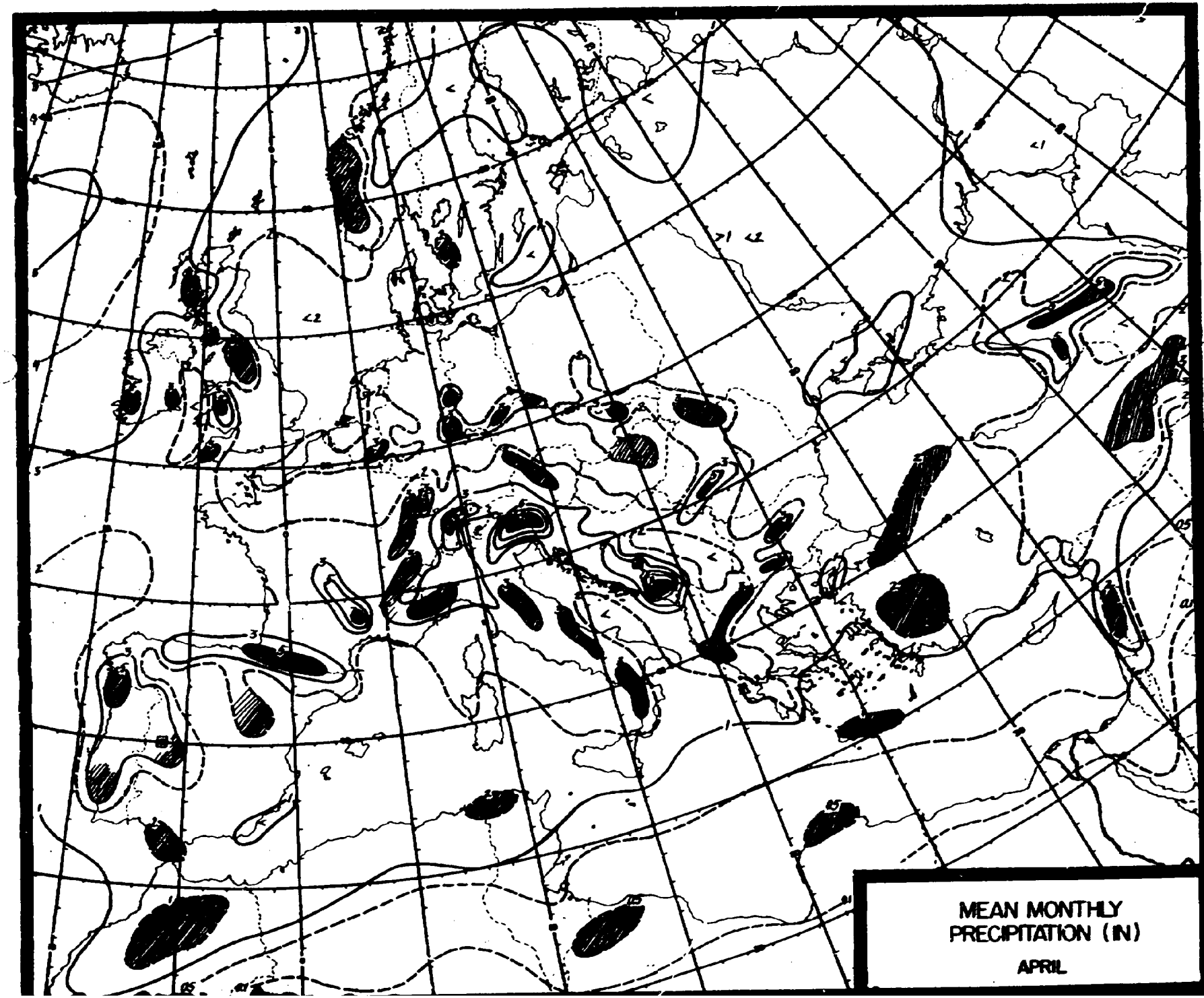

MEAN NUMBER
OF SNOWFALL DAYS
MARCH

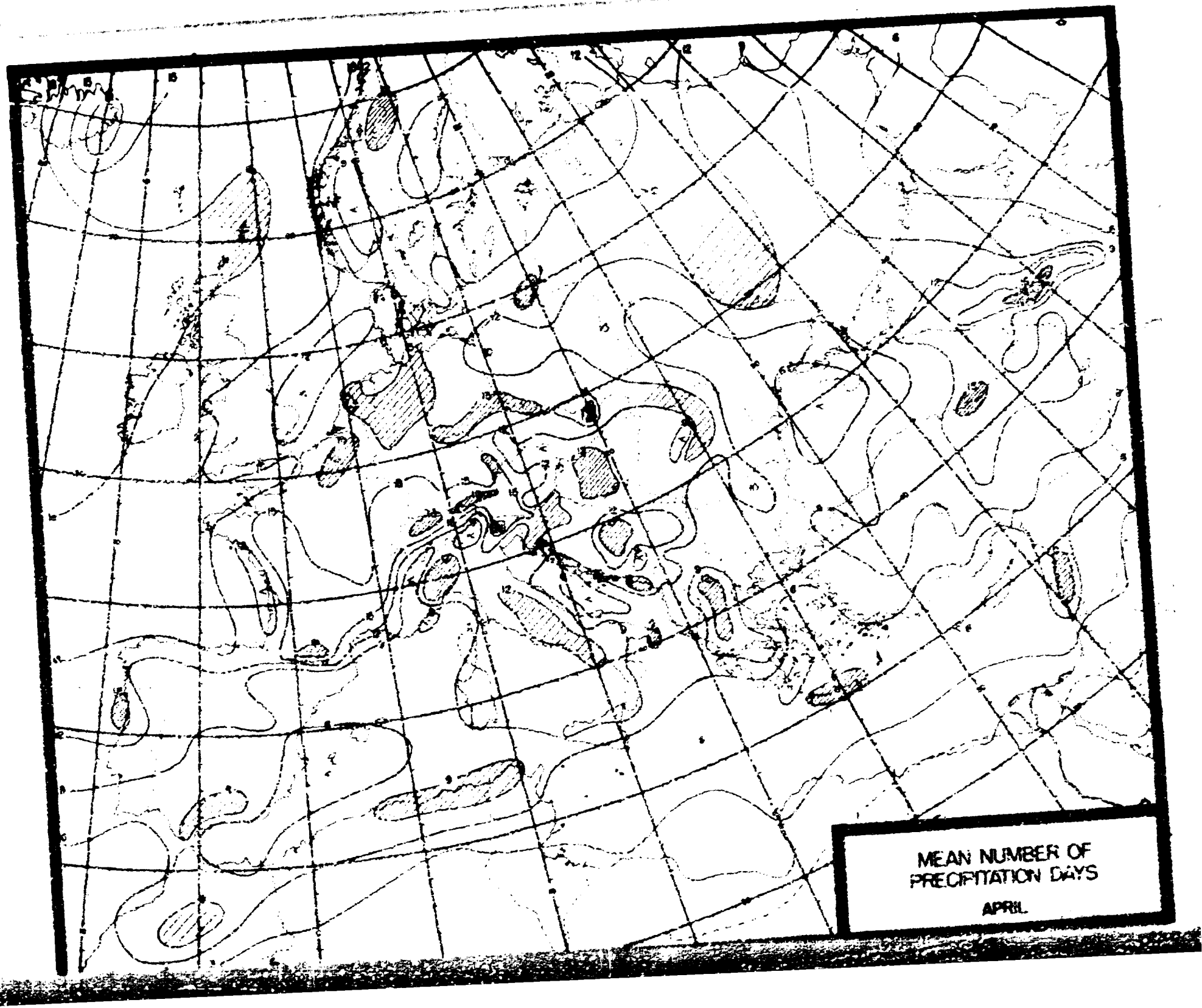

EXTREME MAXIMUM
TEMPERATURE (°F)
APRIL

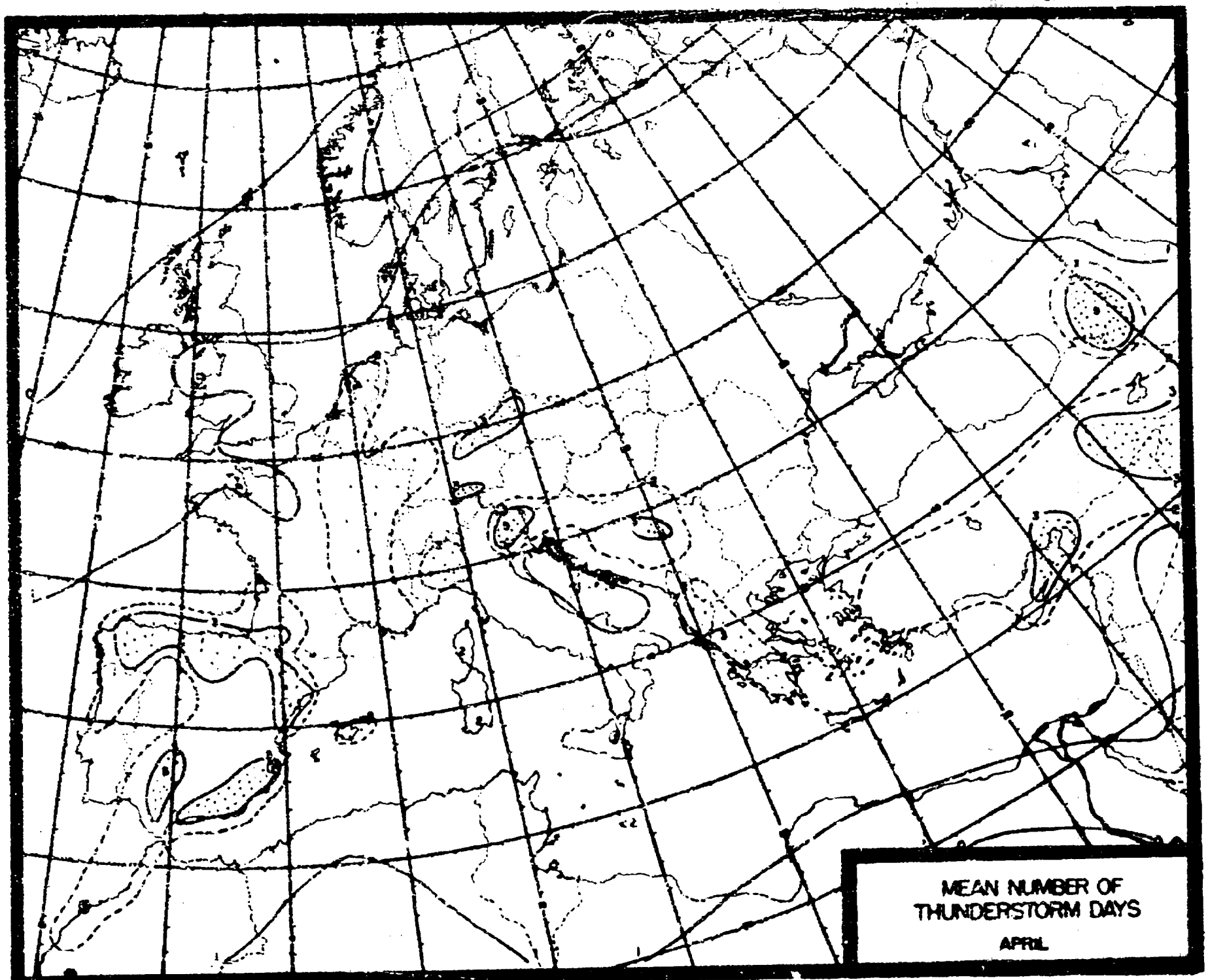

MEAN MAXIMUM
TEMPERATURE (°F)
APRIL

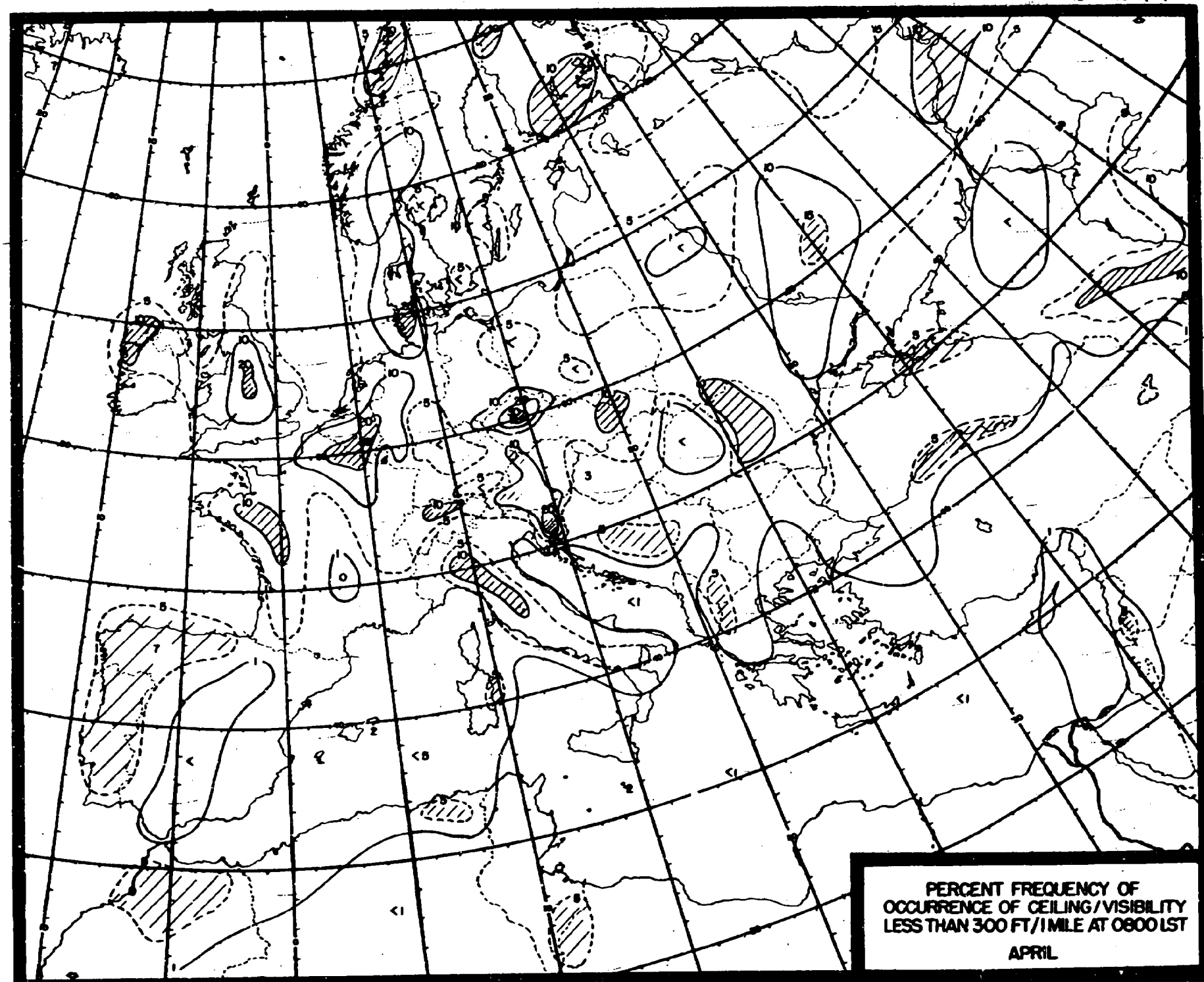

MEAN MINIMUM
TEMPERATURE (°F)
APRIL

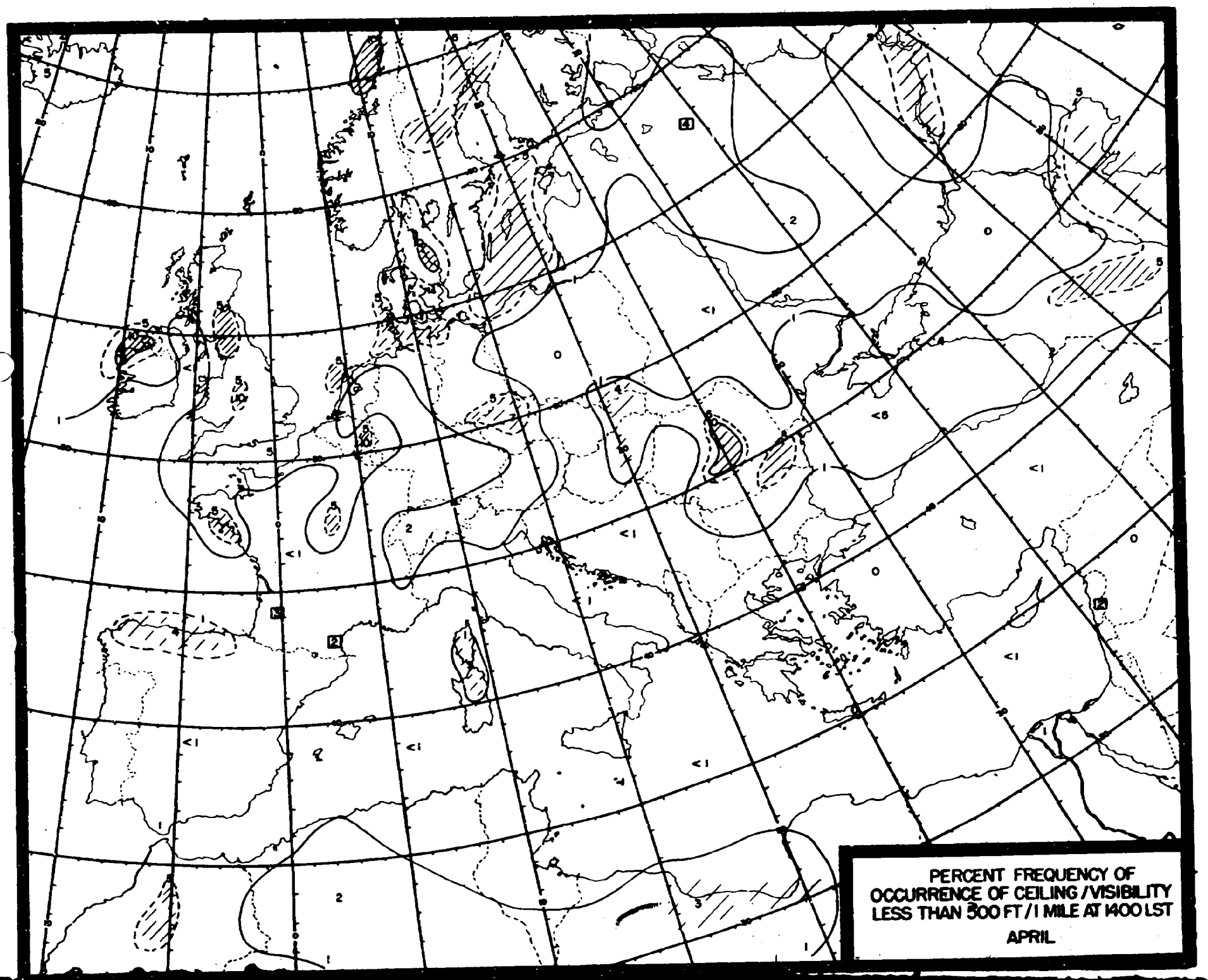

EXTREME MINIMUM
TEMPERATURE (°F)
APRIL

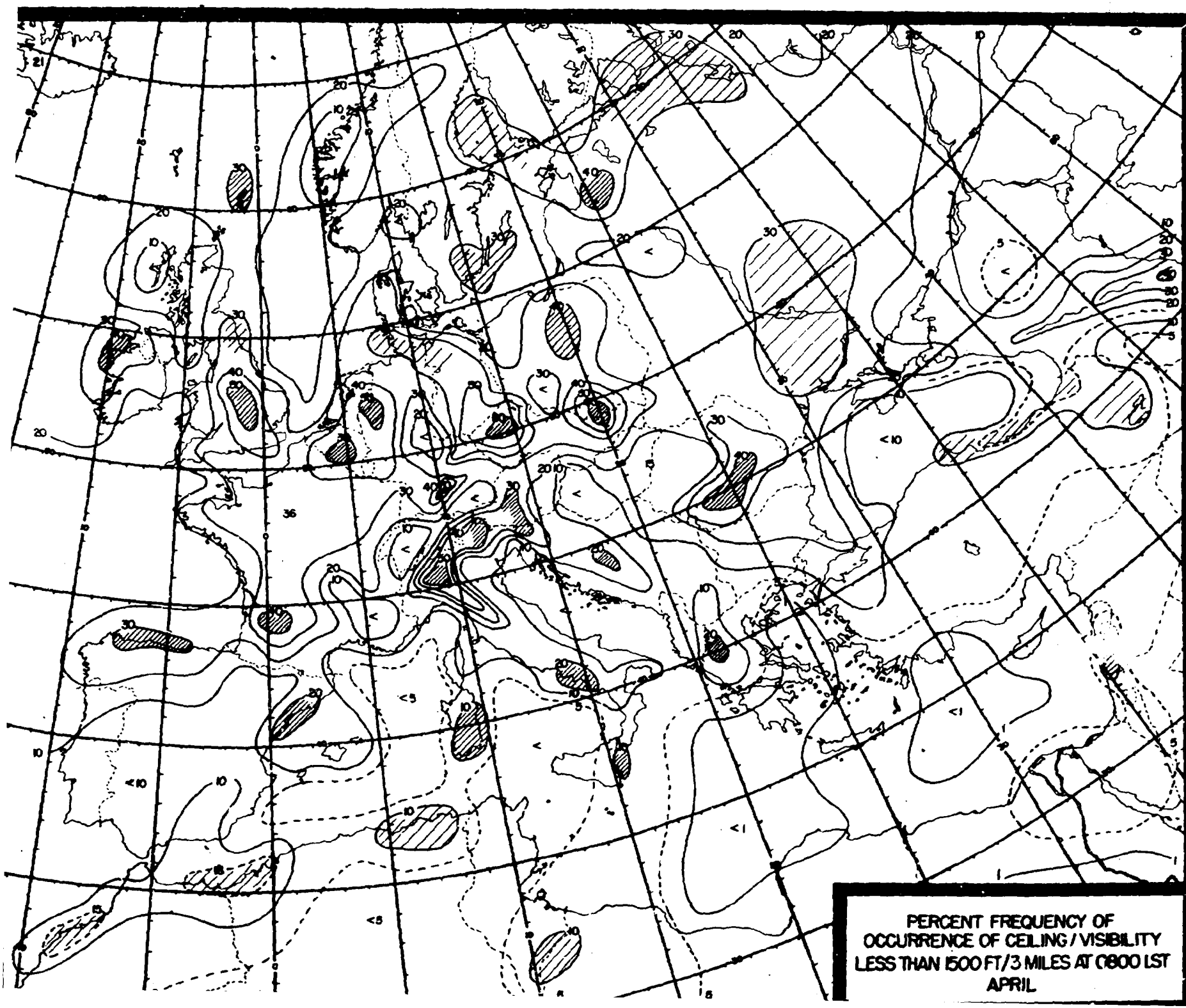

MEAN MONTHLY
PRECIPITATION (IN)
APRIL

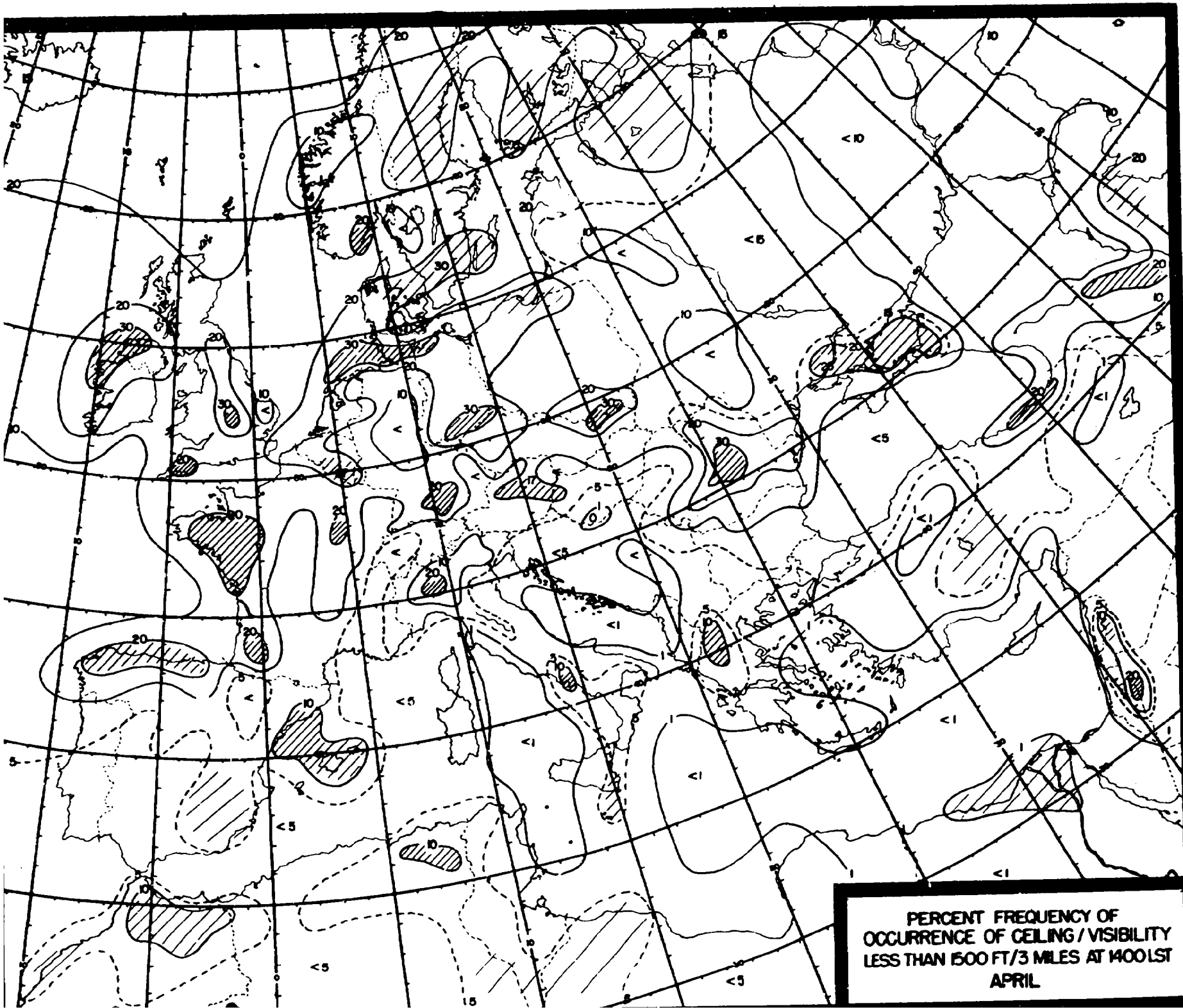

MEAN NUMBER OF
PRECIPITATION DAYS
APRIL


MEAN NUMBER OF
THUNDERSTORM DAYS
APRIL

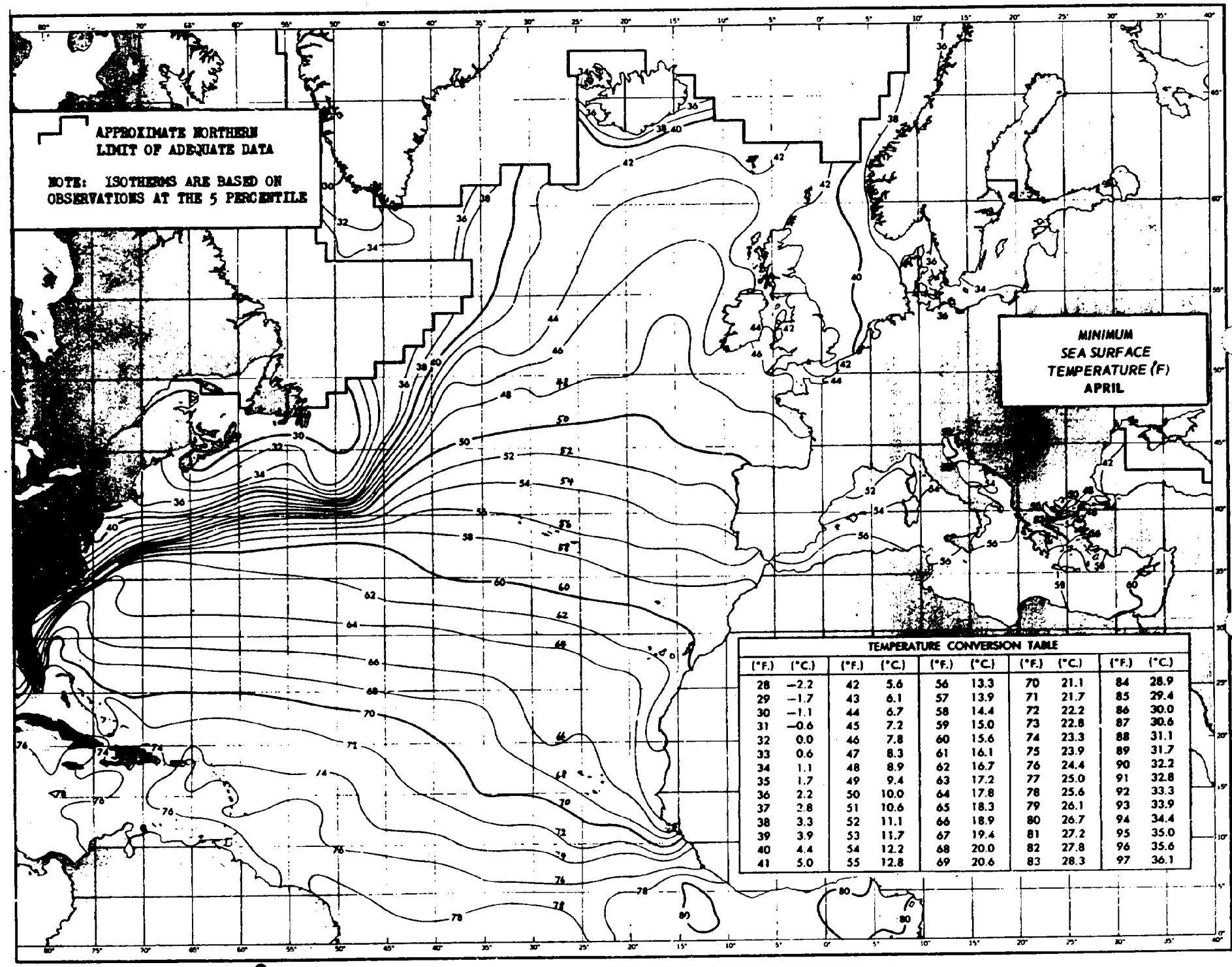

PERCENT FREQUENCY OF
OCCURRENCE OF CEILING/VISIBILITY
LESS THAN 300 FT/1 MILE AT 0800 LST
APRIL


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 500 FT / 1 MILE AT 1400 LST
APRIL


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 0800 LST
APRIL

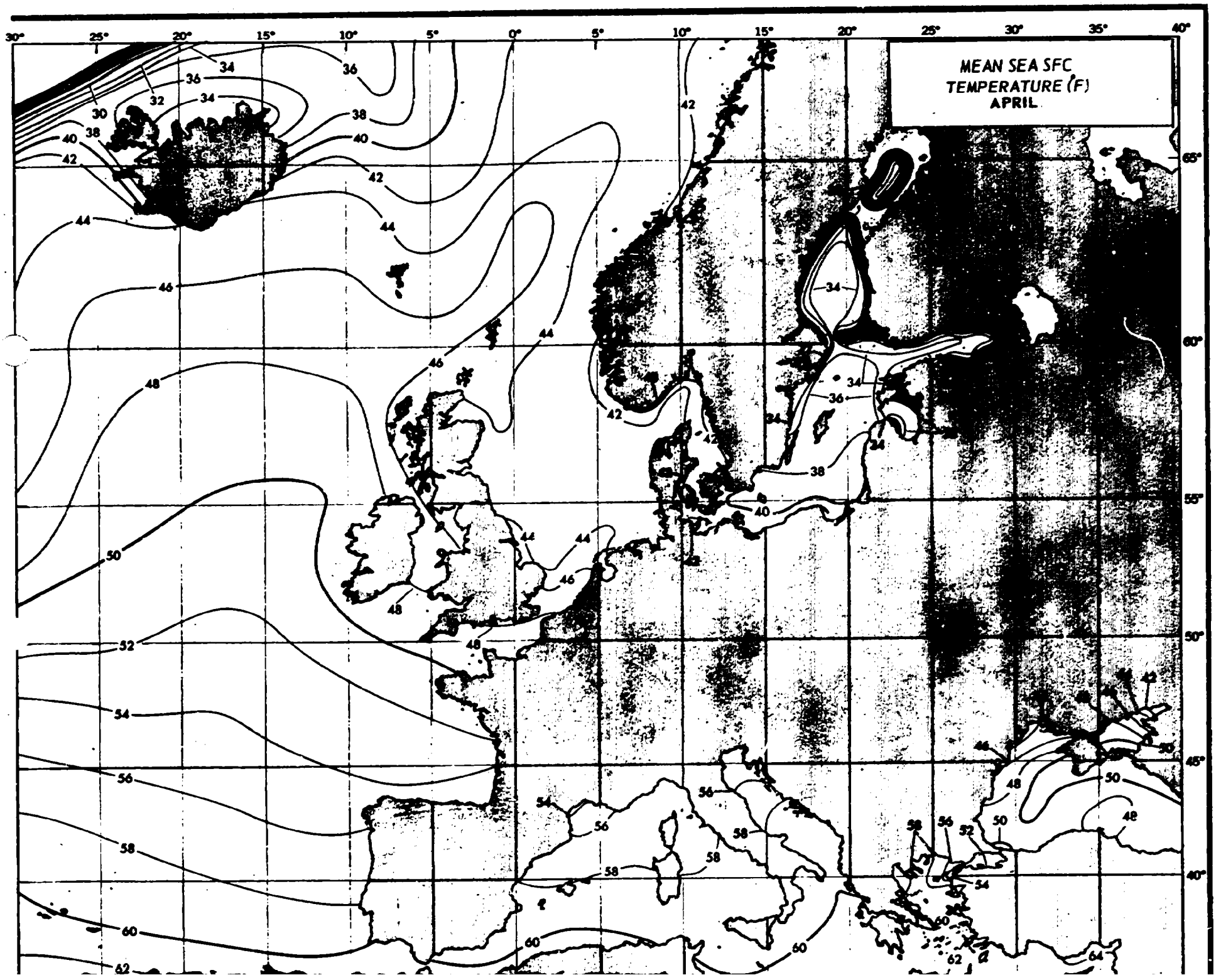


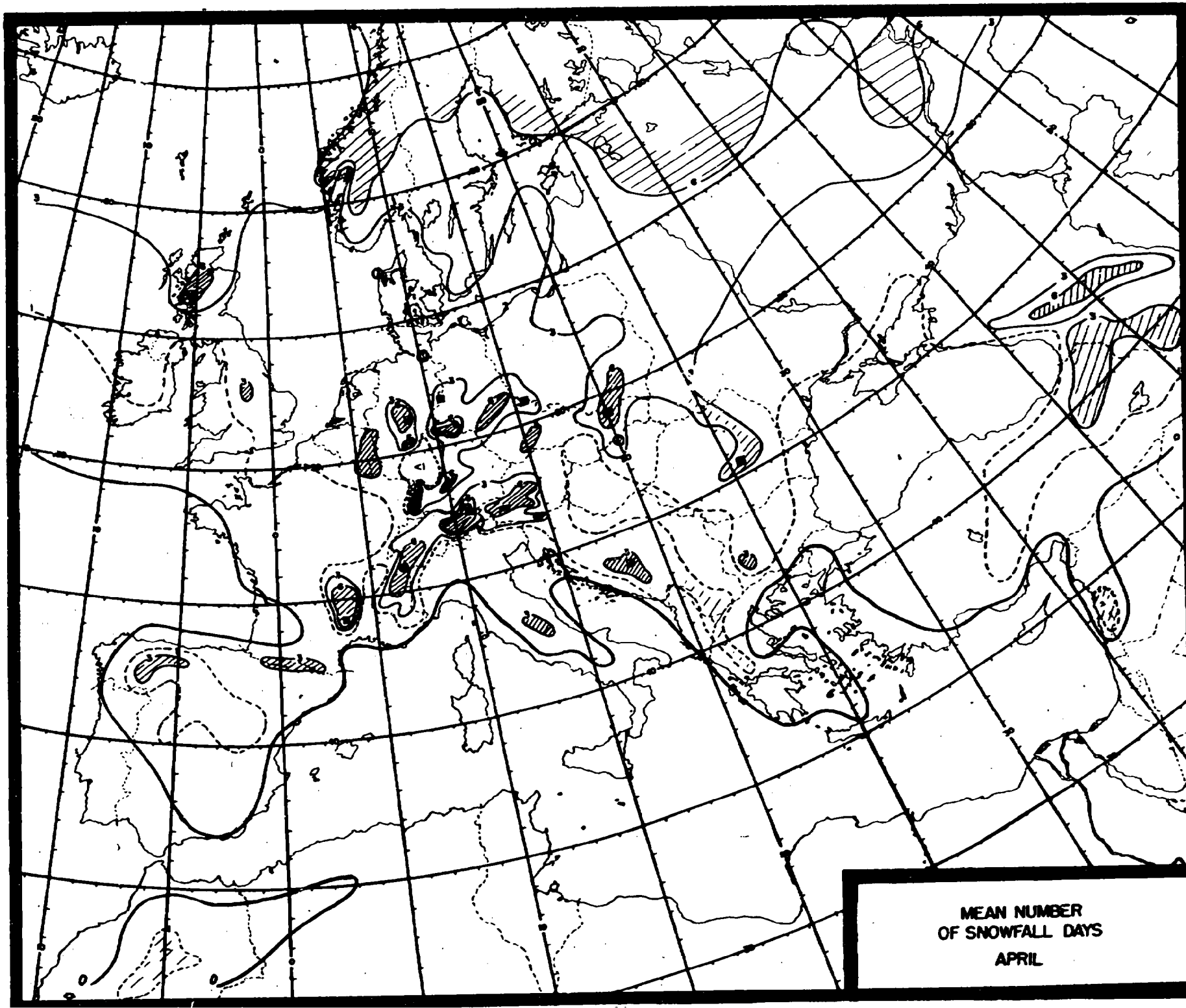
PERCENT FREQUENCY OF OCCURRENCE OF CEILING / VISIBILITY LESS THAN 1500 FT/3 MILES AT 1400 LST APRIL

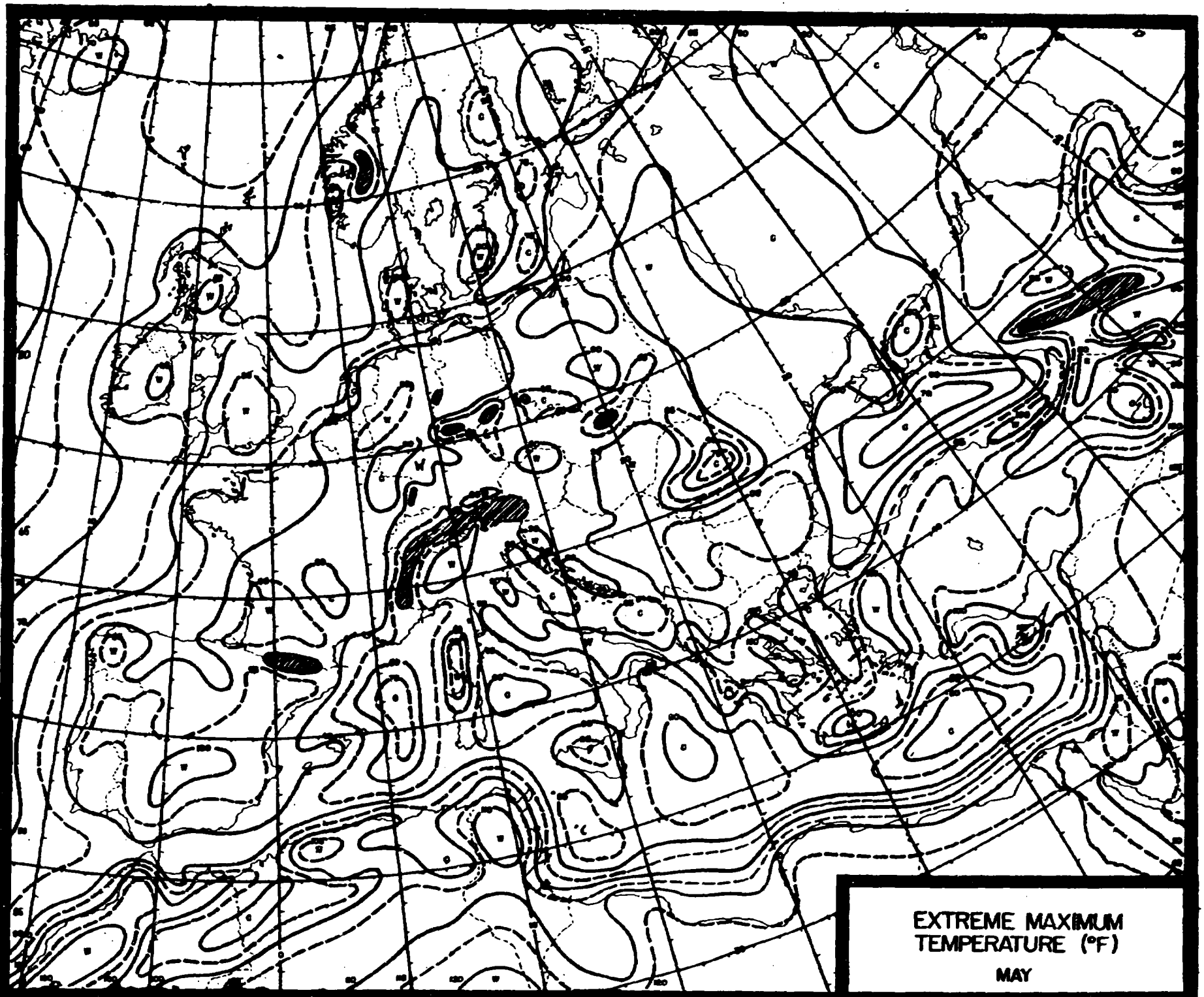


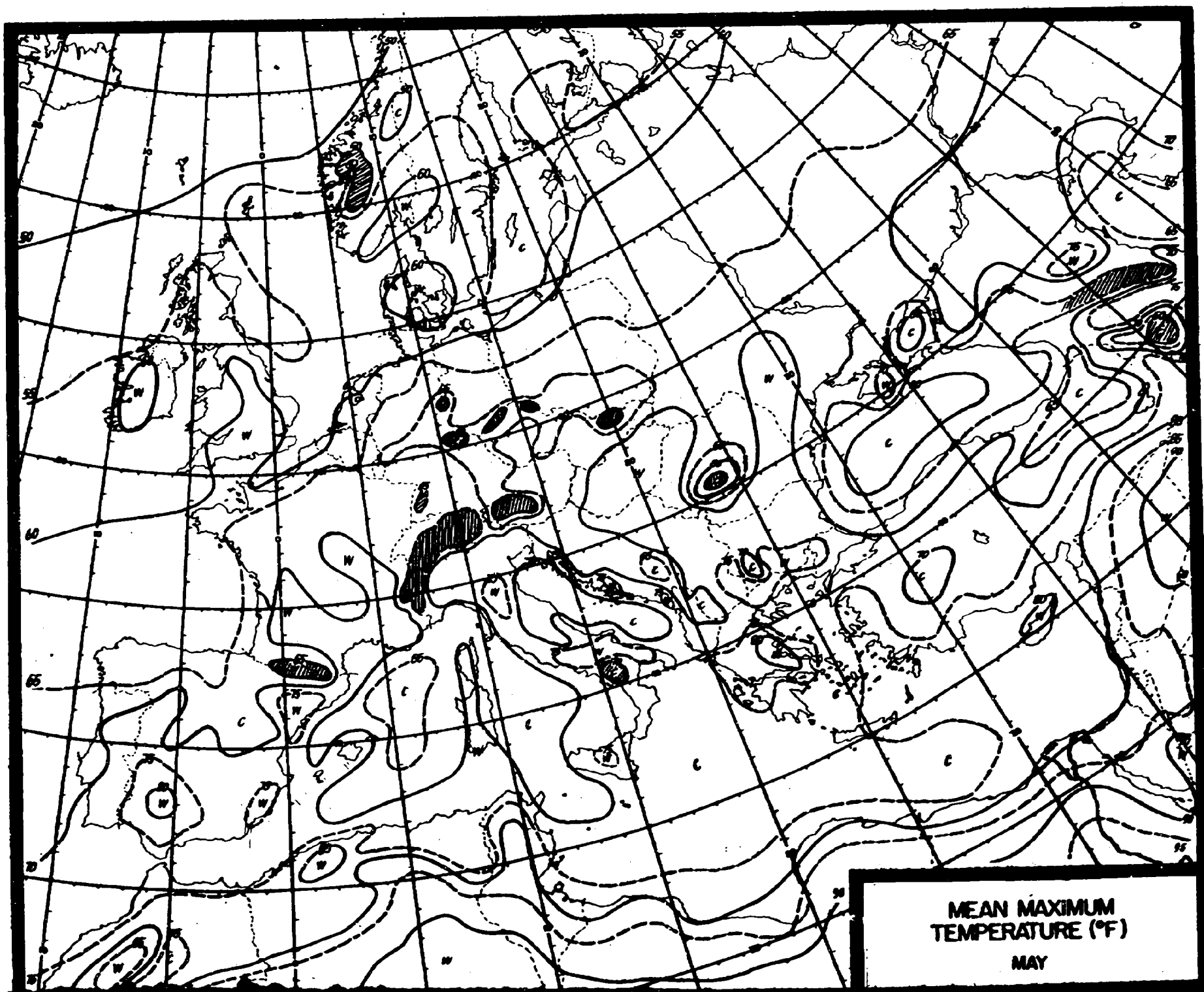
TEMPERATURE CONVERSION TABLE

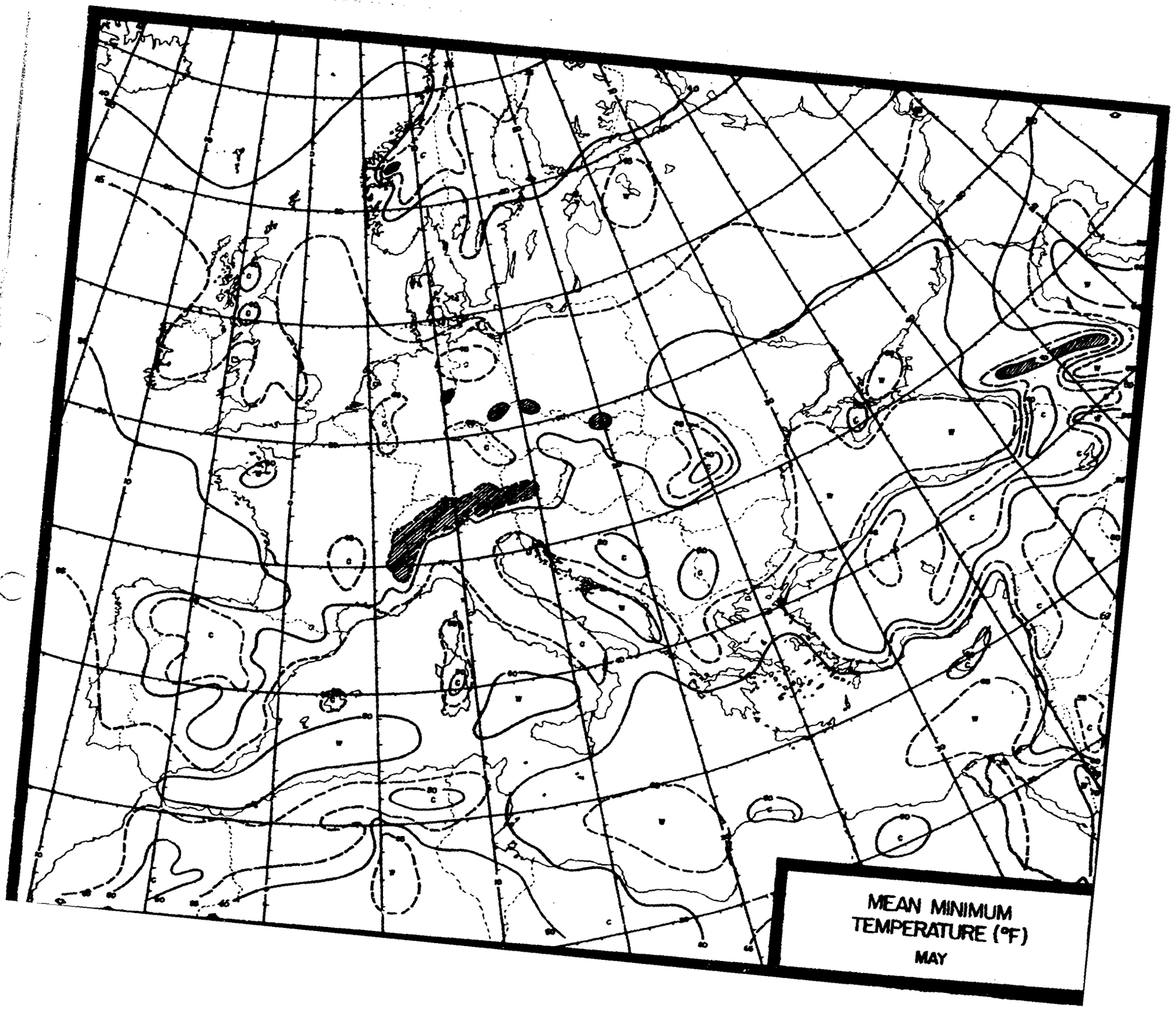
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33	0.6	47	8.3	61	16.1	75	23.9	89	31.7
34	1.1	48	8.9	62	16.7	76	24.4	90	32.2
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39	3.9	53	11.7	67	19.4	81	27.2	95	35.0
40	4.4	54	12.2	68	20.0	82	27.8	96	35.6
41	5.0	55	12.8	69	20.6	83	28.3	97	36.1

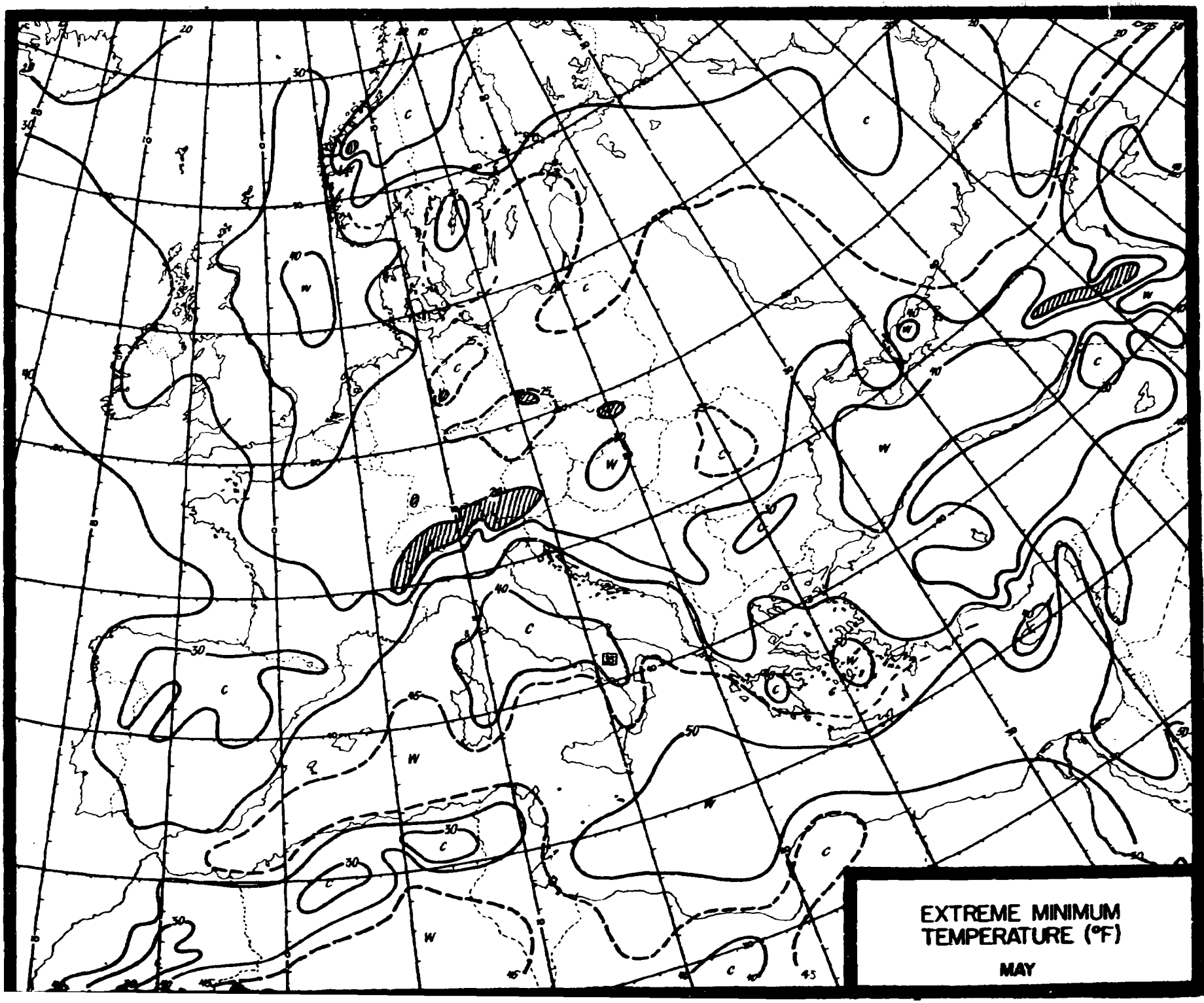

MEAN SEA SFC
TEMPERATURE (F)
APRIL
30°
25°
20°
15°
10°
5°
0°
5°
10°
15°
20°
25°
30°
35°
40°
65°
60°
55°
50°
45°
40°

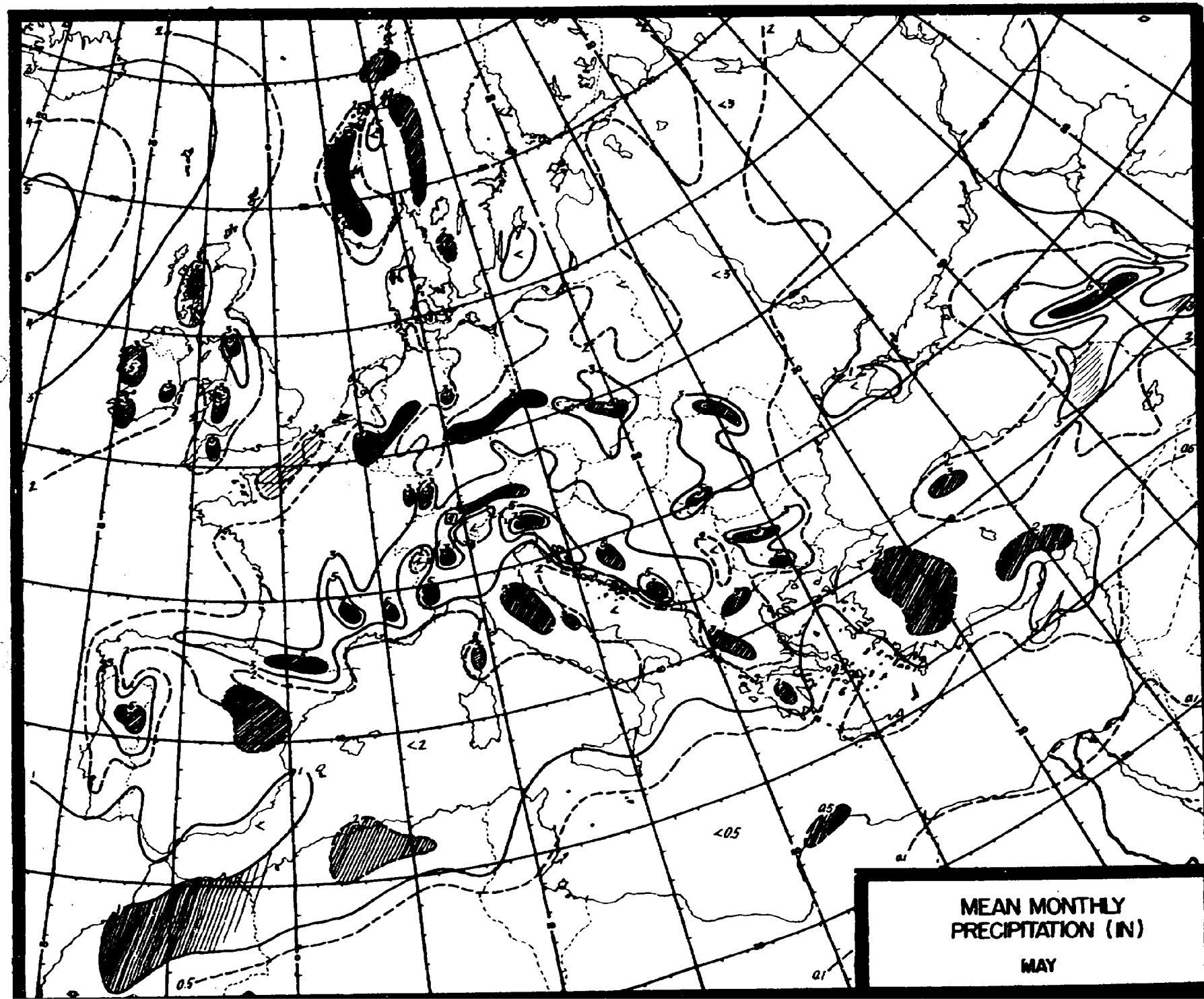

MEAN NUMBER
OF SNOWFALL DAYS
APRIL

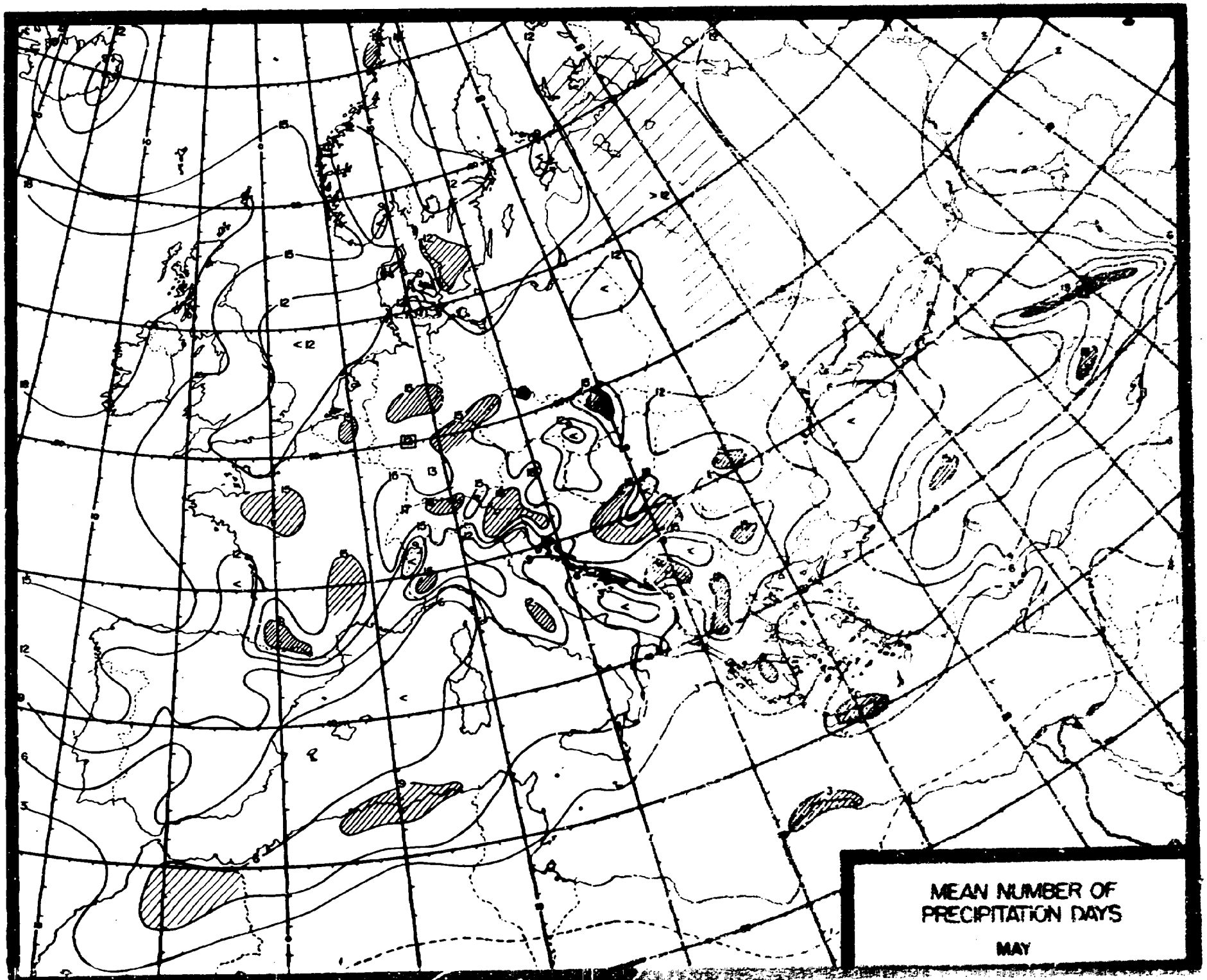

EXTREME MAXIMUM
TEMPERATURE (°F)
MAY

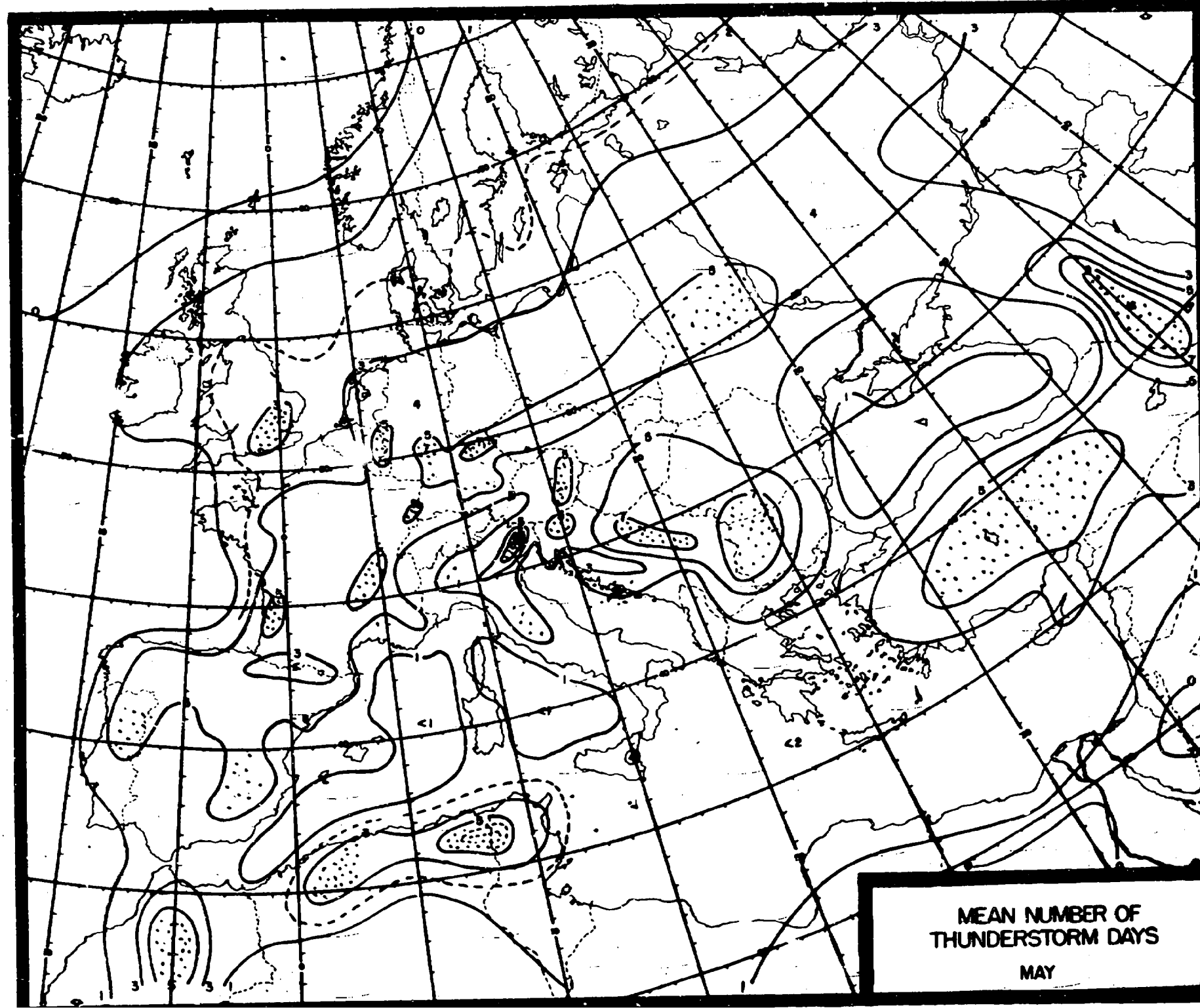

MEAN MAXIMUM
TEMPERATURE (°F)
MAY

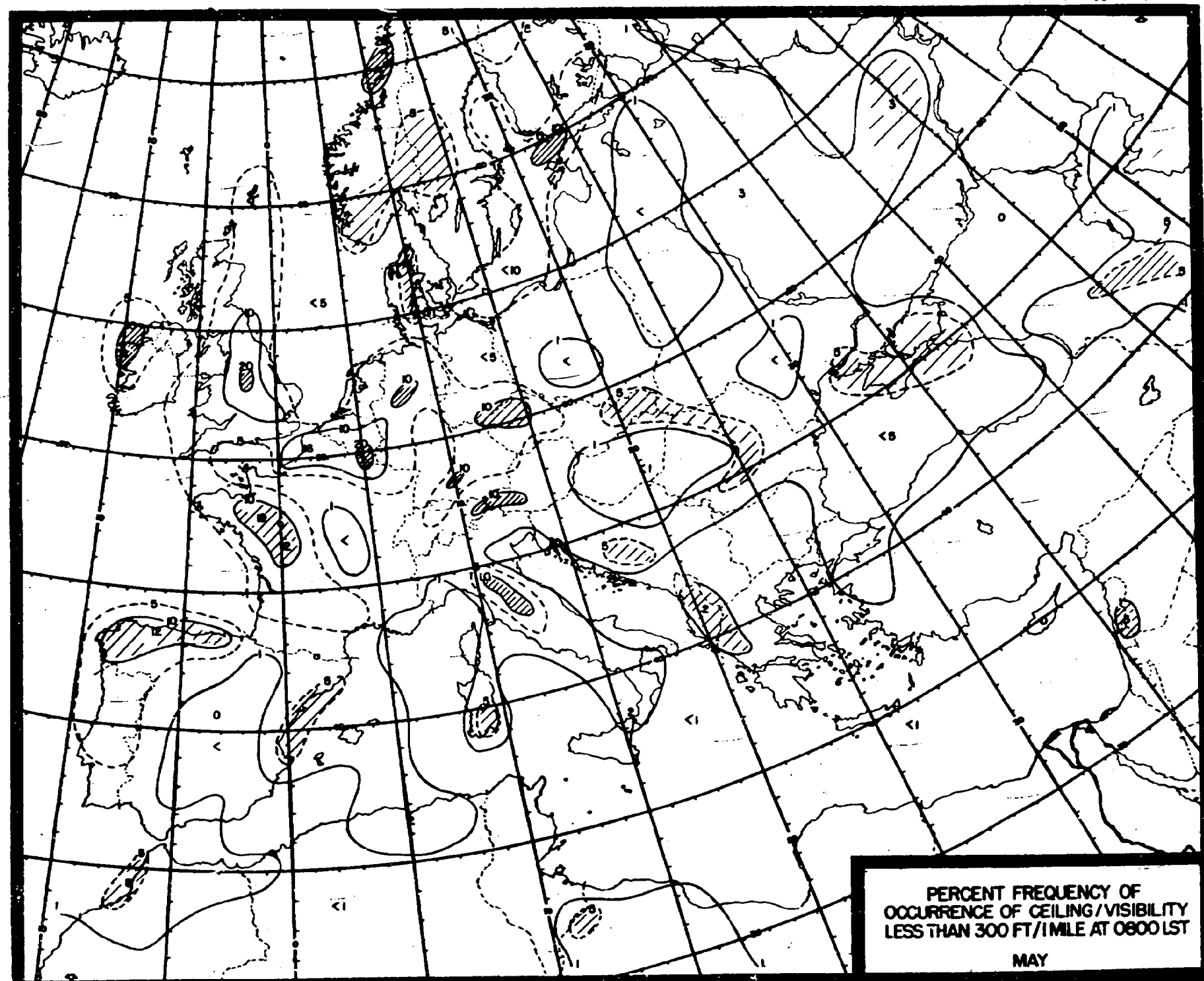

MEAN MINIMUM
TEMPERATURE (°F)
MAY

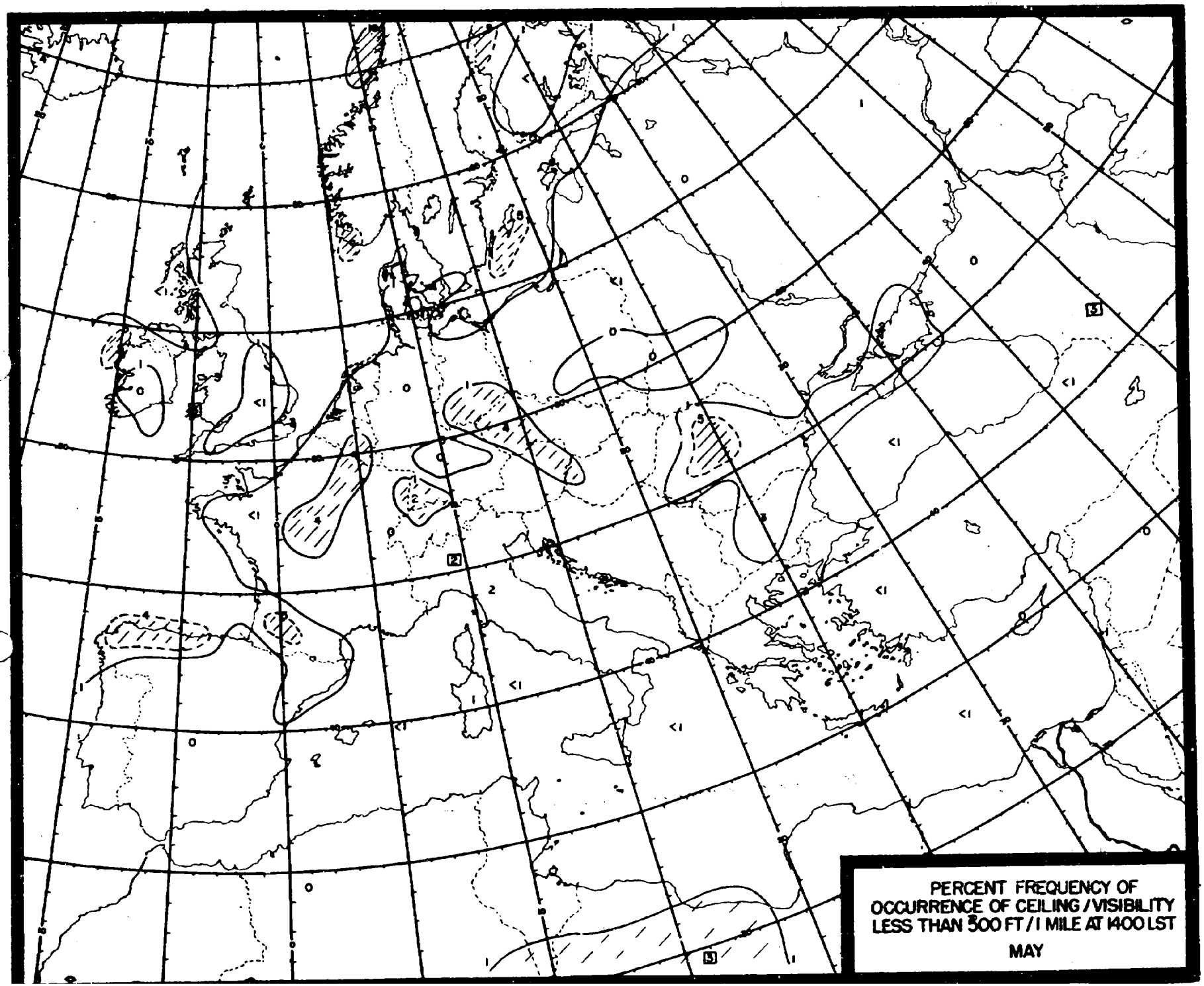

EXTREME MINIMUM
TEMPERATURE (°F)
MAY

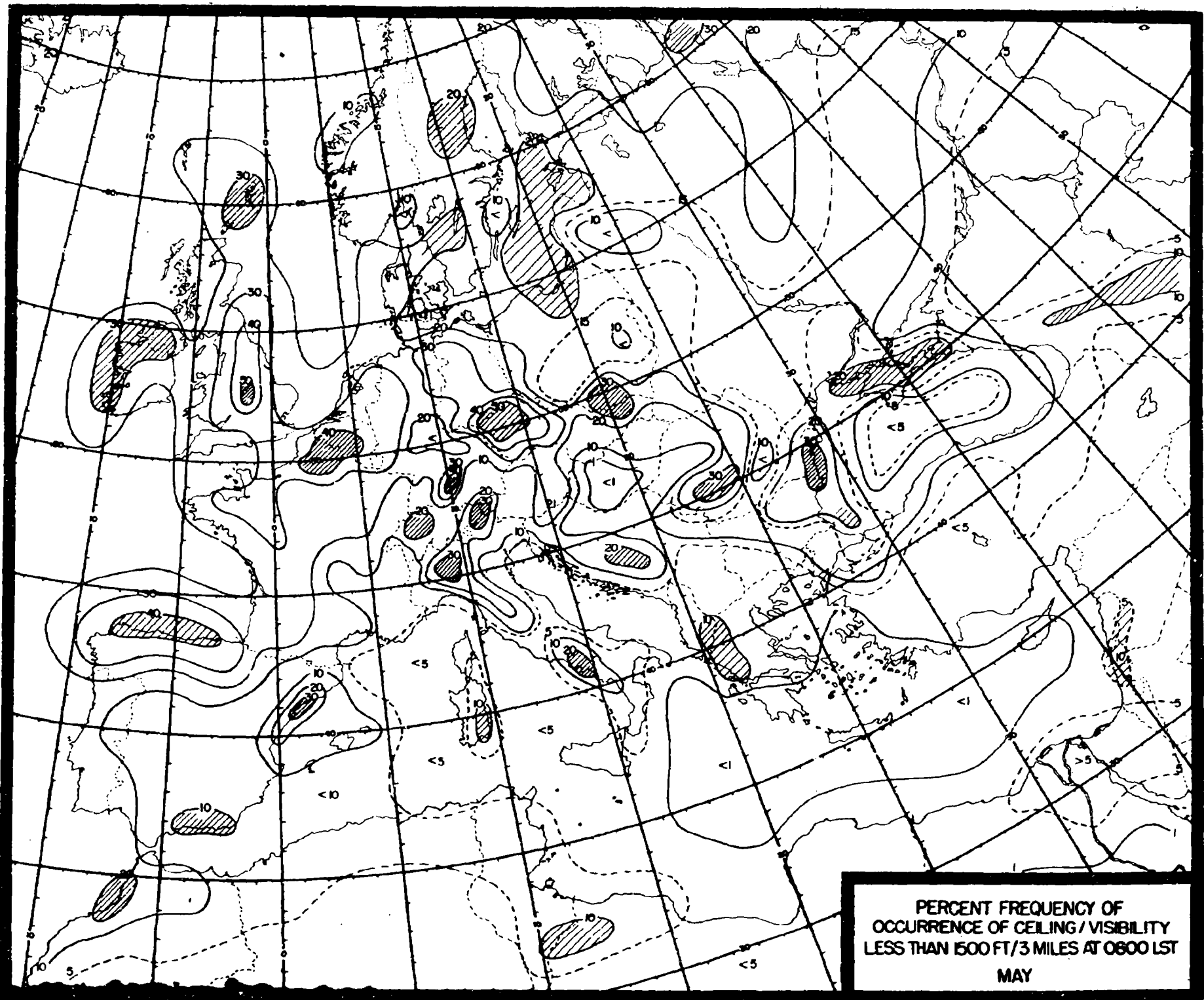

MEAN MONTHLY
PRECIPITATION (IN)
MAY

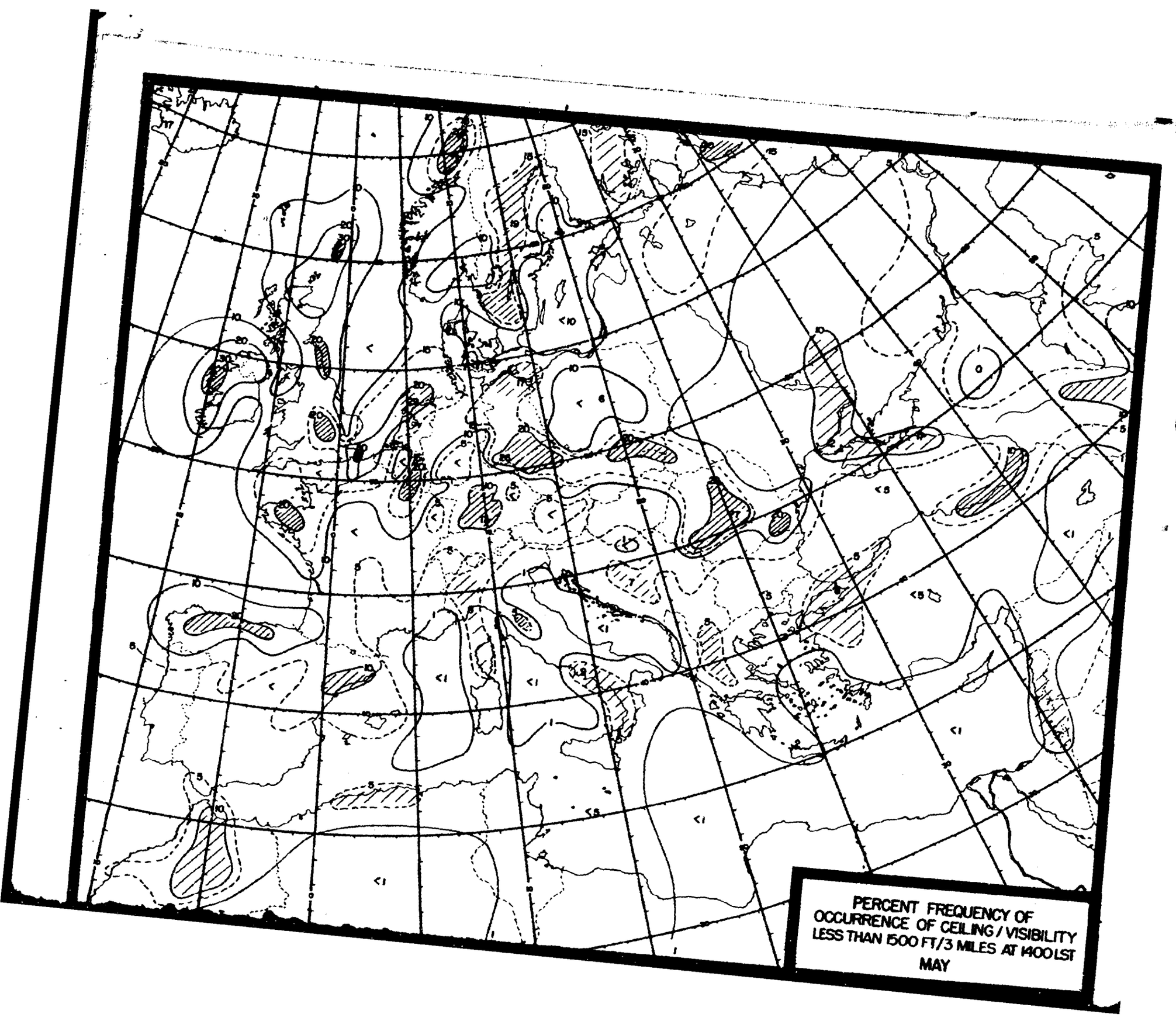

MEAN NUMBER OF
PRECIPITATION DAYS
MAY

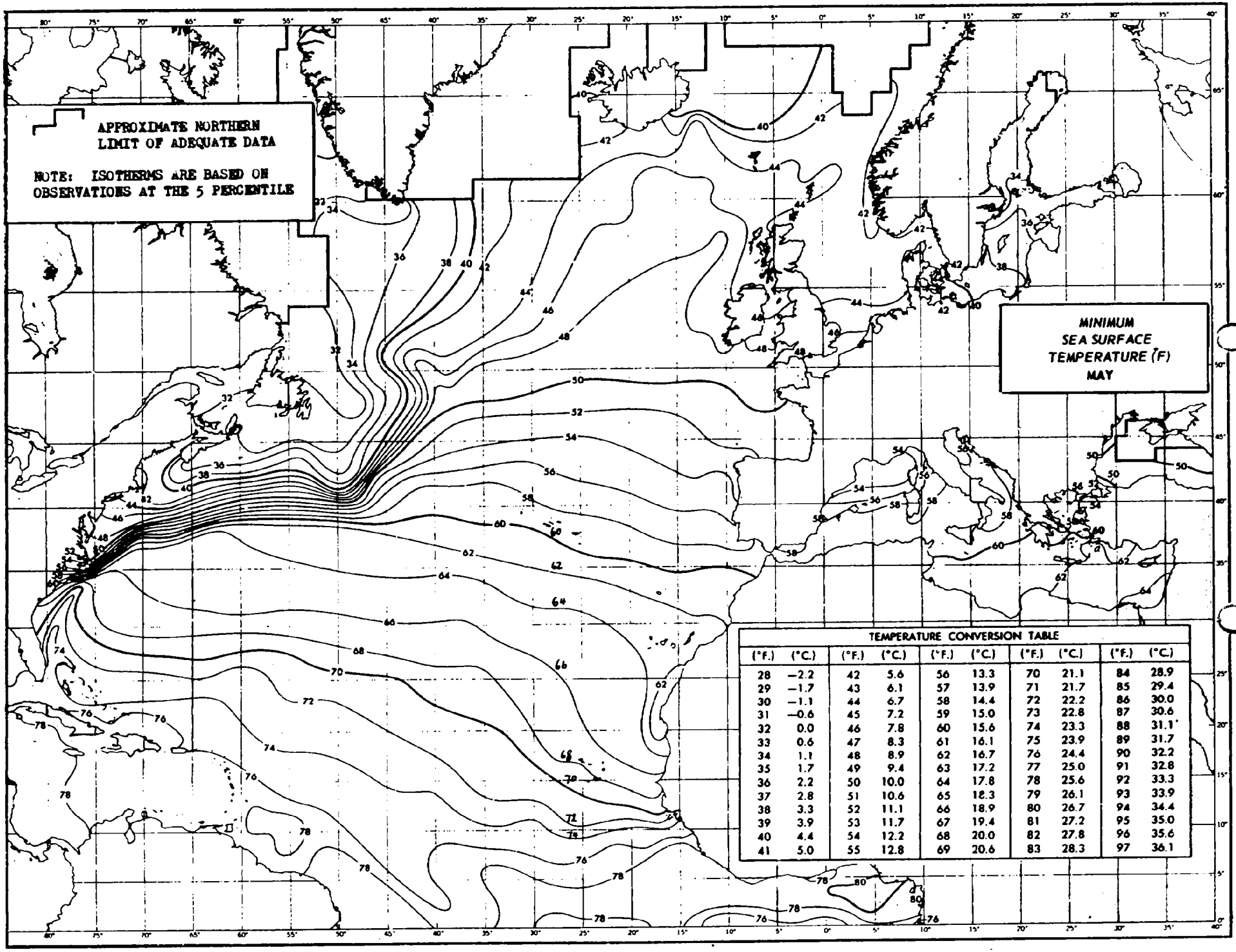

MEAN NUMBER OF
THUNDERSTORM DAYS
MAY


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING/VISIBILITY
LESS THAN 300 FT/1 MILE AT 0600 LST
MAY


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 500 FT / 1 MILE AT 1400 LST
MAY

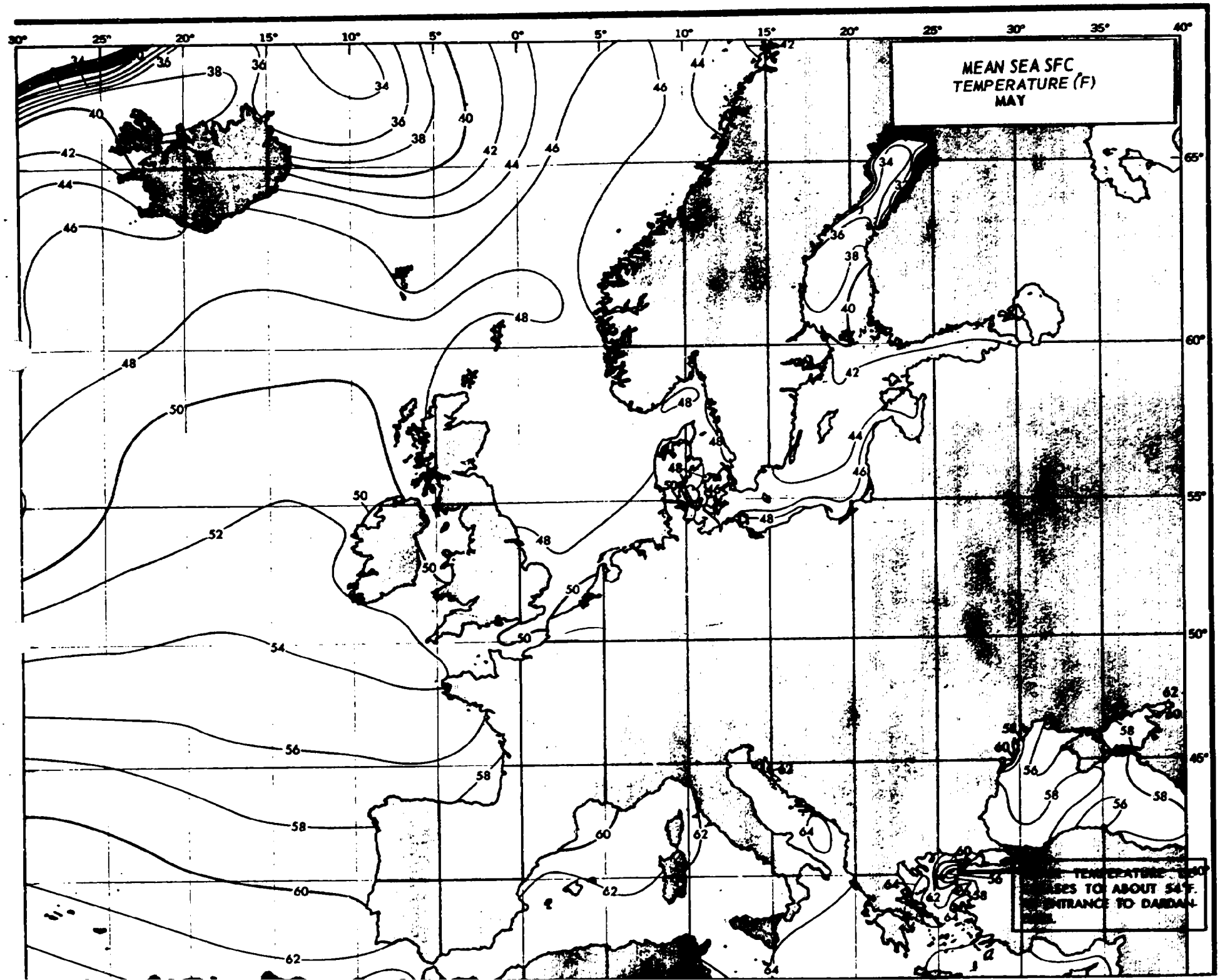

PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 0600 LST
MAY

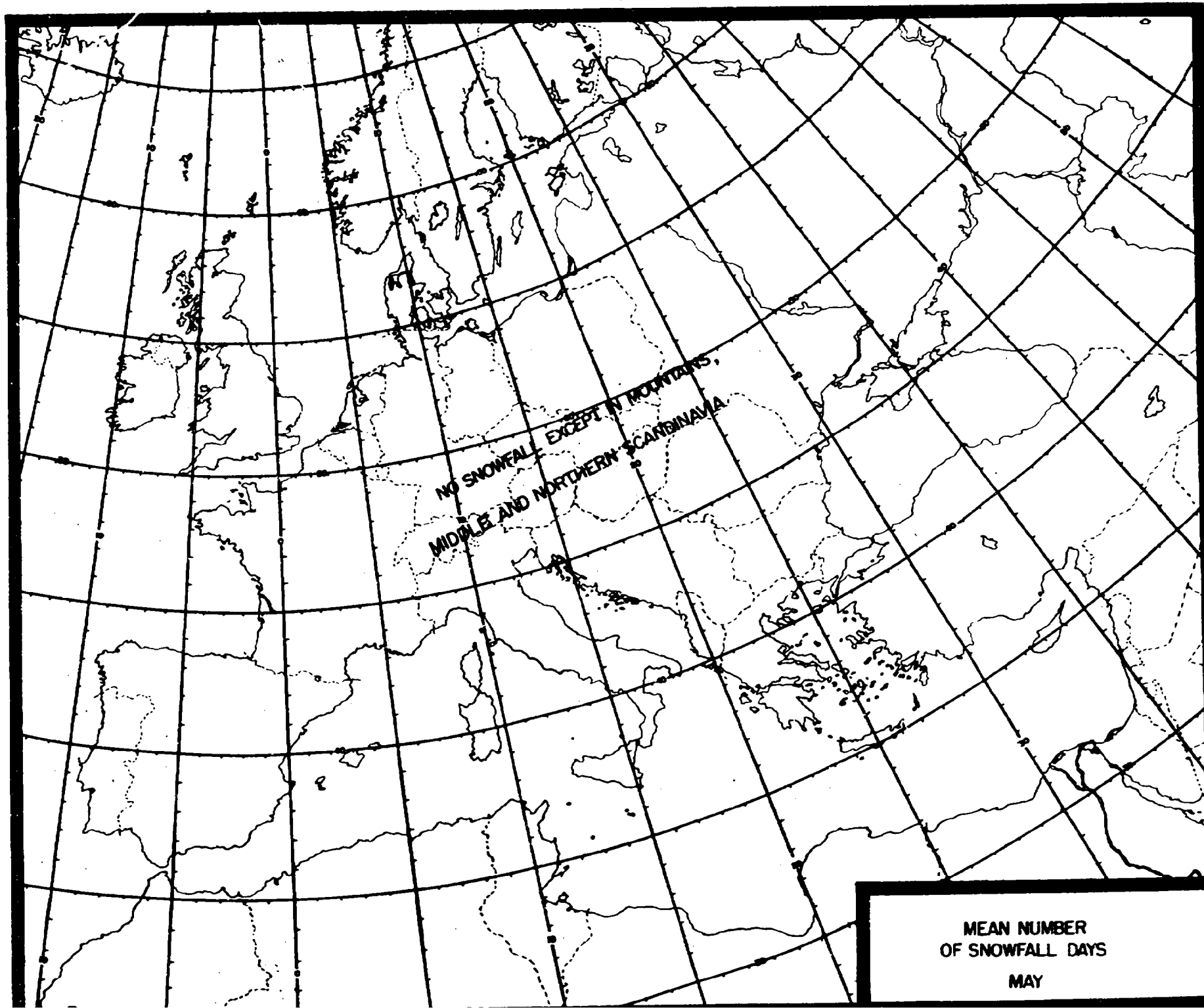

PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 1400 LST
MAY



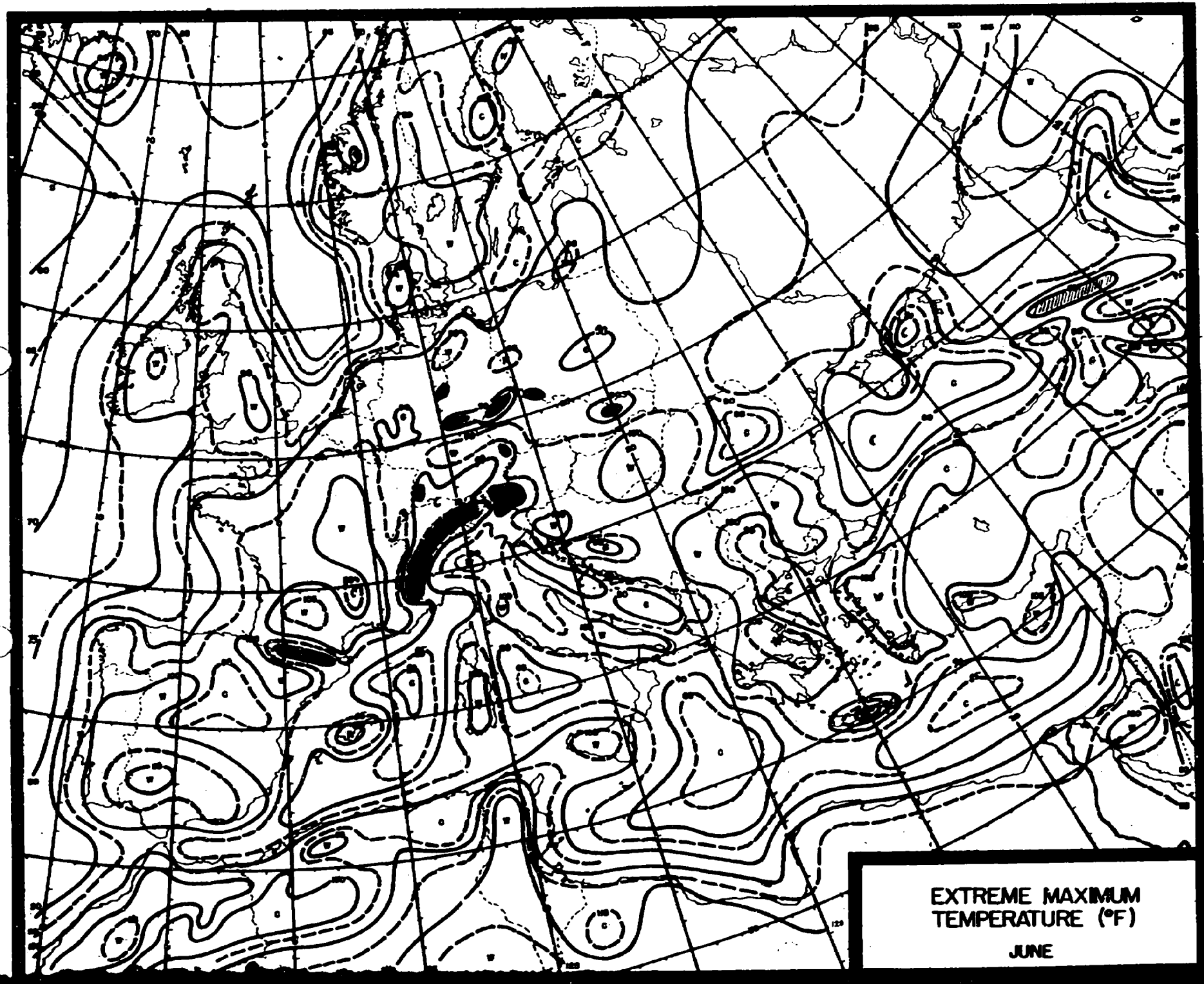
TEMPERATURE CONVERSION TABLE

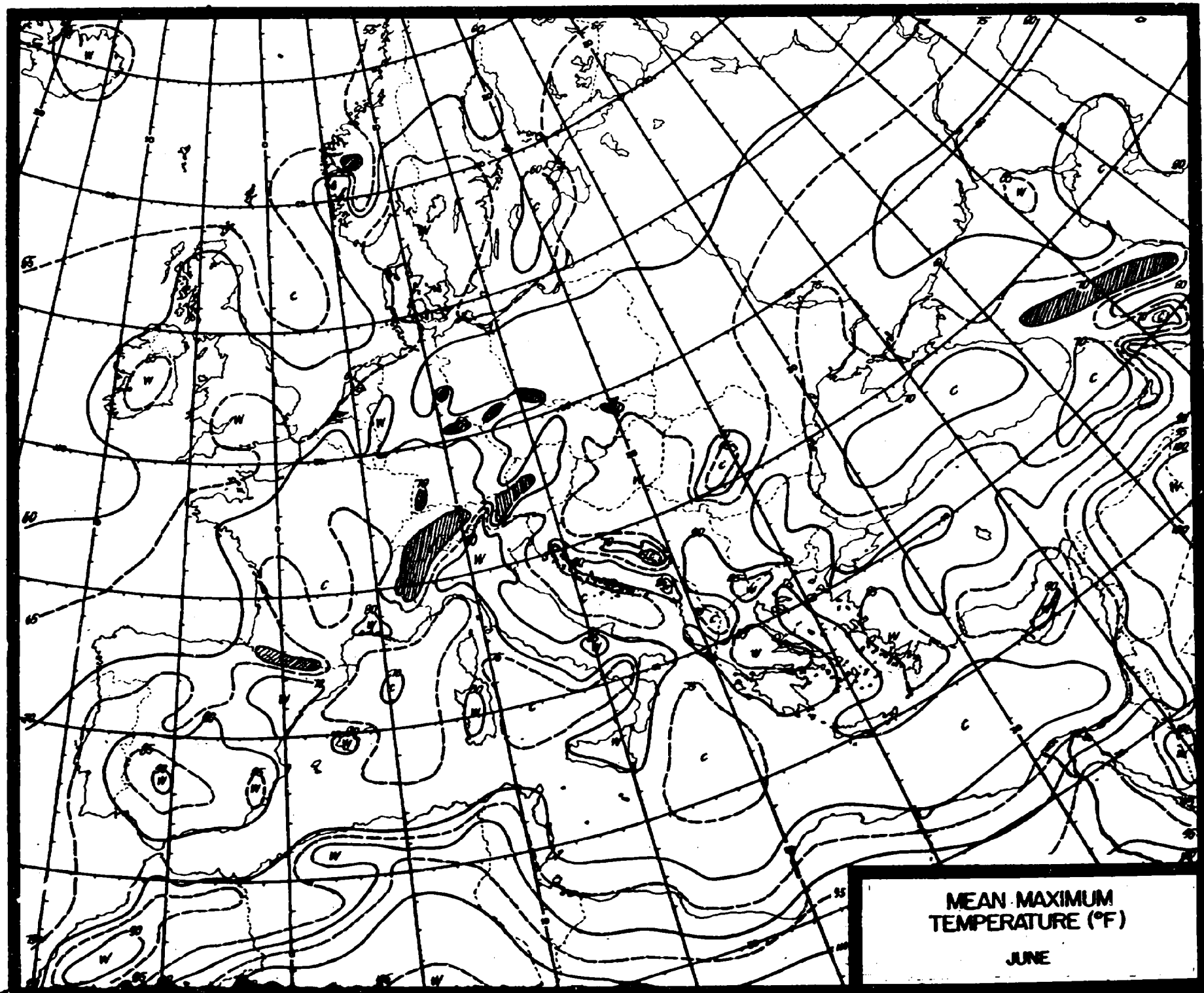
(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)
28	−2.2	42	5.6	56	13.3	70	21.1	84	28.9
29	−1.7	43	6.1	57	13.9	71	21.7	85	29.4
30	−1.1	44	6.7	58	14.4	72	22.2	86	30.0
31	−0.6	45	7.2	59	15.0	73	22.8	87	30.6
32	0.0	46	7.8	60	15.6	74	23.3	88	31.1
33	0.6	47	8.3	61	16.1	75	23.9	89	31.7
34	1.1	48	8.9	62	16.7	76	24.4	90	32.2
35	1.7	49	9.4	63	17.2	77	25.0	91	32.8
36	2.2	50	10.0	64	17.8	78	25.6	92	33.3
37	2.8	51	10.6	65	18.3	79	26.1	93	33.9
38	3.3	52	11.1	66	18.9	80	26.7	94	34.4
39	3.9	53	11.7	67	19.4	81	27.2	95	35.0
40	4.4	54	12.2	68	20.0	82	27.8	96	35.6
41	5.0	55	12.8	69	20.6	83	28.3	97	36.1

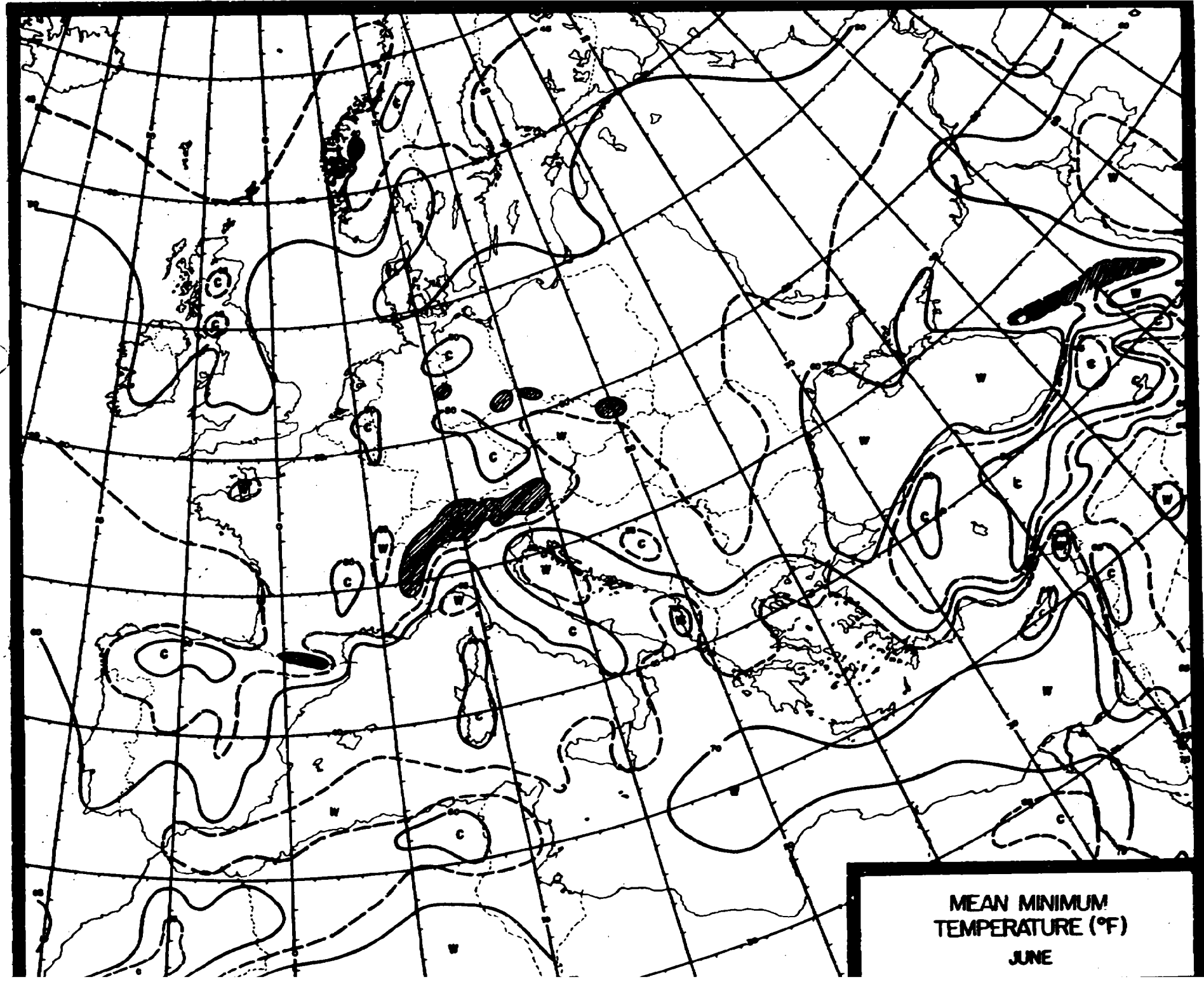

MEAN SEA SFC
TEMPERATURE (F)
MAY
30°
25°
20°
15°
10°
5°
0°
5°
10°
15°
20°
25°
30°
35°
40°
65°
60°
55°
50°
45°
TEMPERATURE
RISES TO ABOUT 54°F.
ENTRANCE TO DARDAN

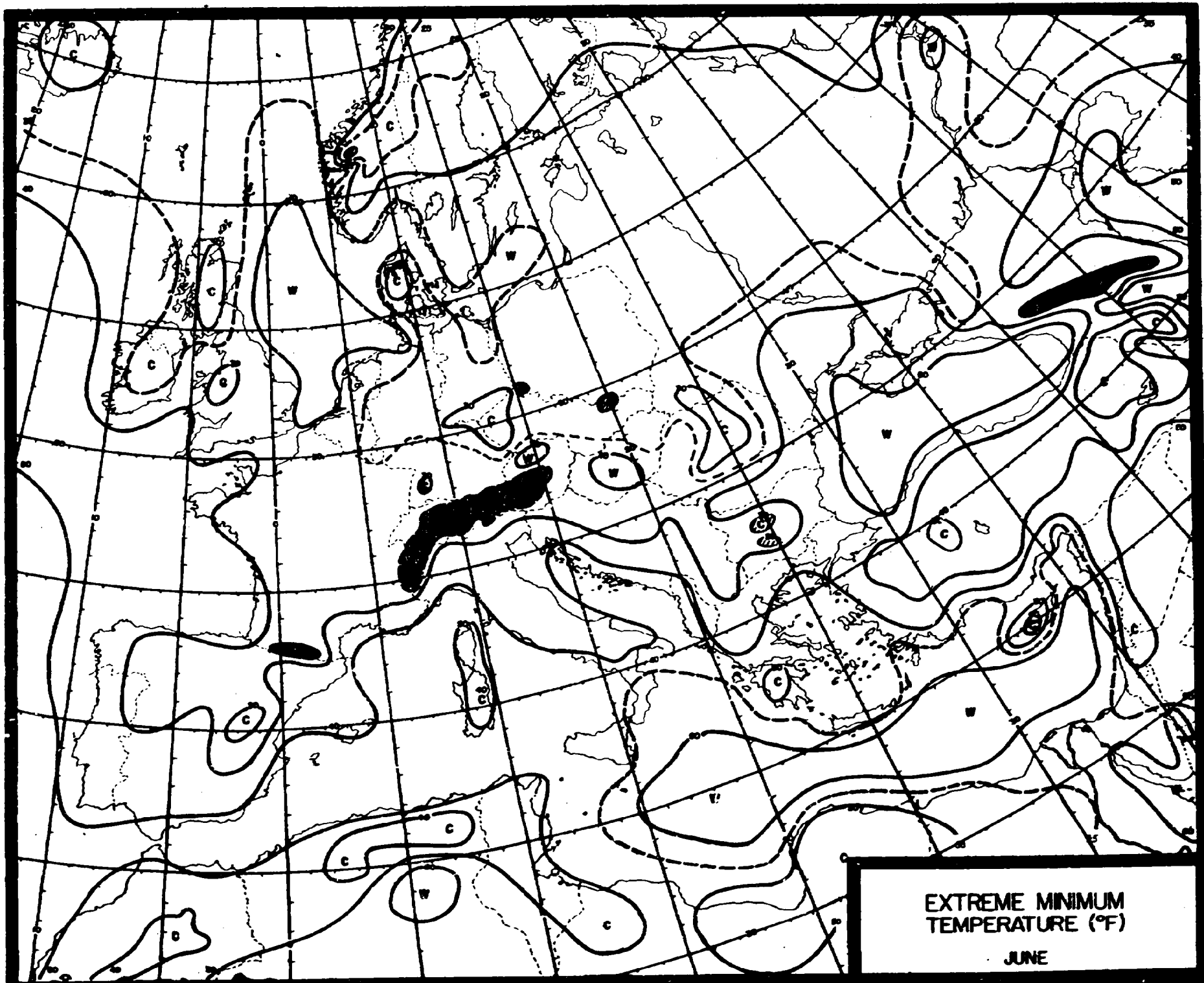


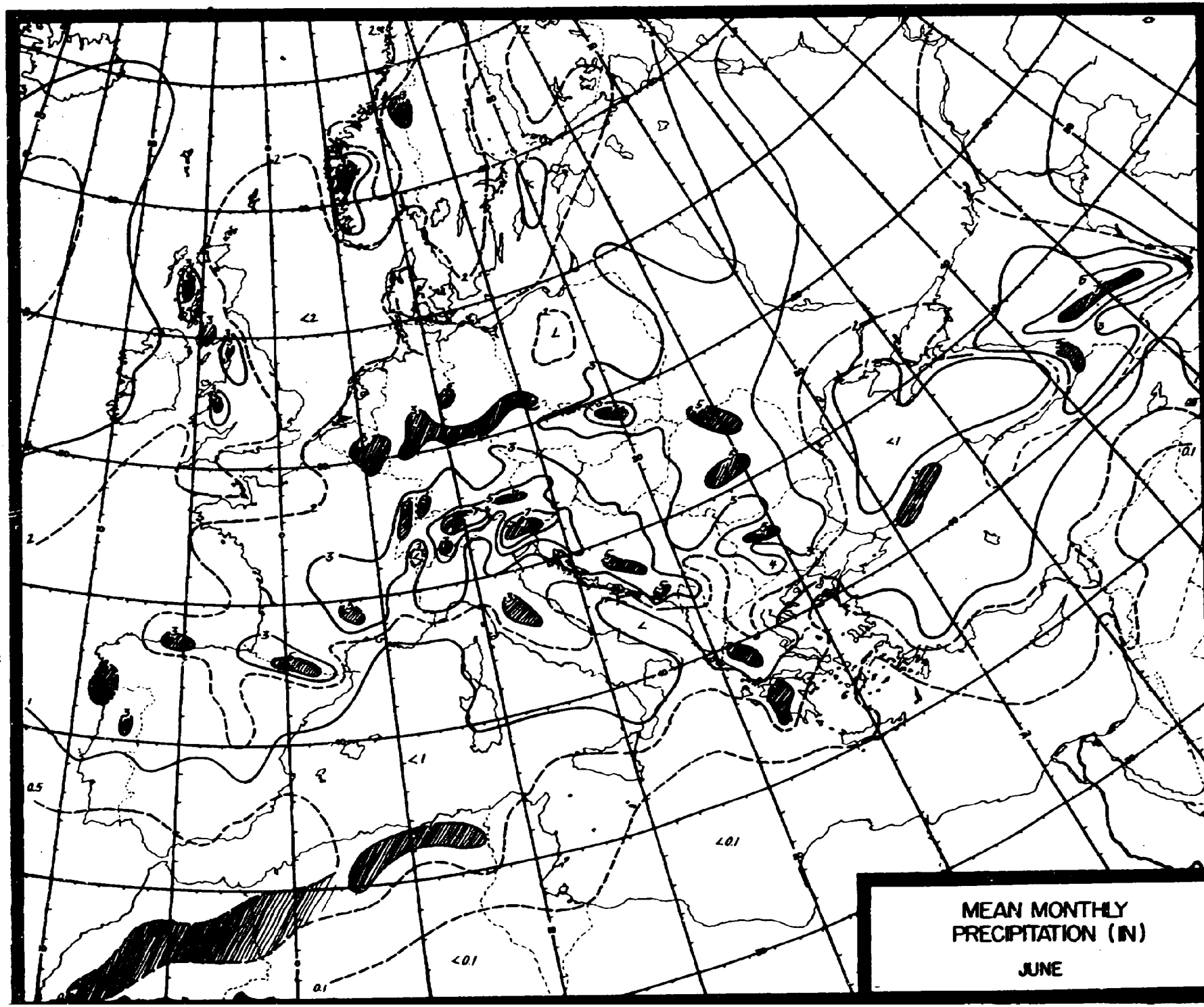
MEAN NUMBER
OF SNOWFALL DAYS
MAY

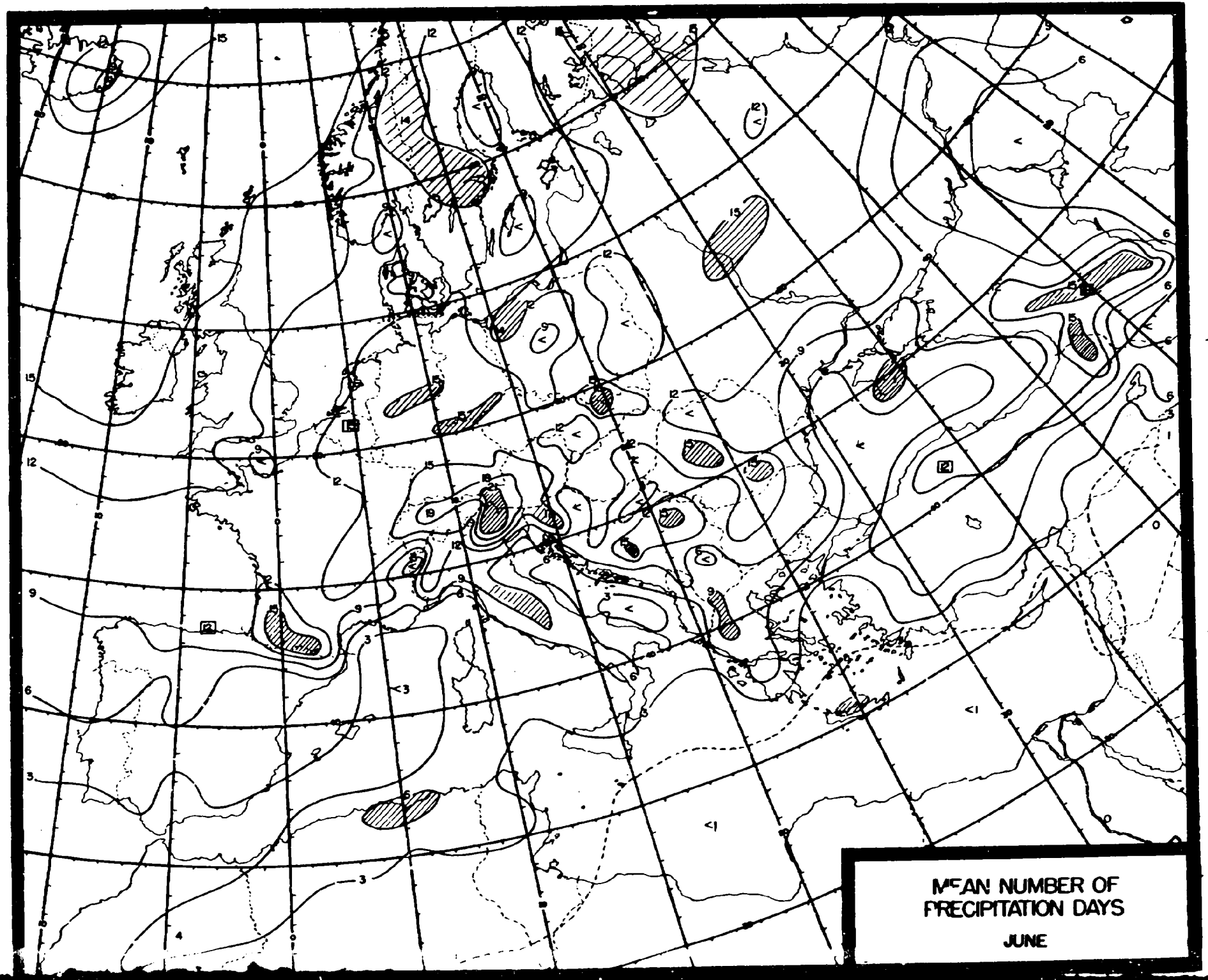

EXTREME MAXIMUM
TEMPERATURE (°F)
JUNE

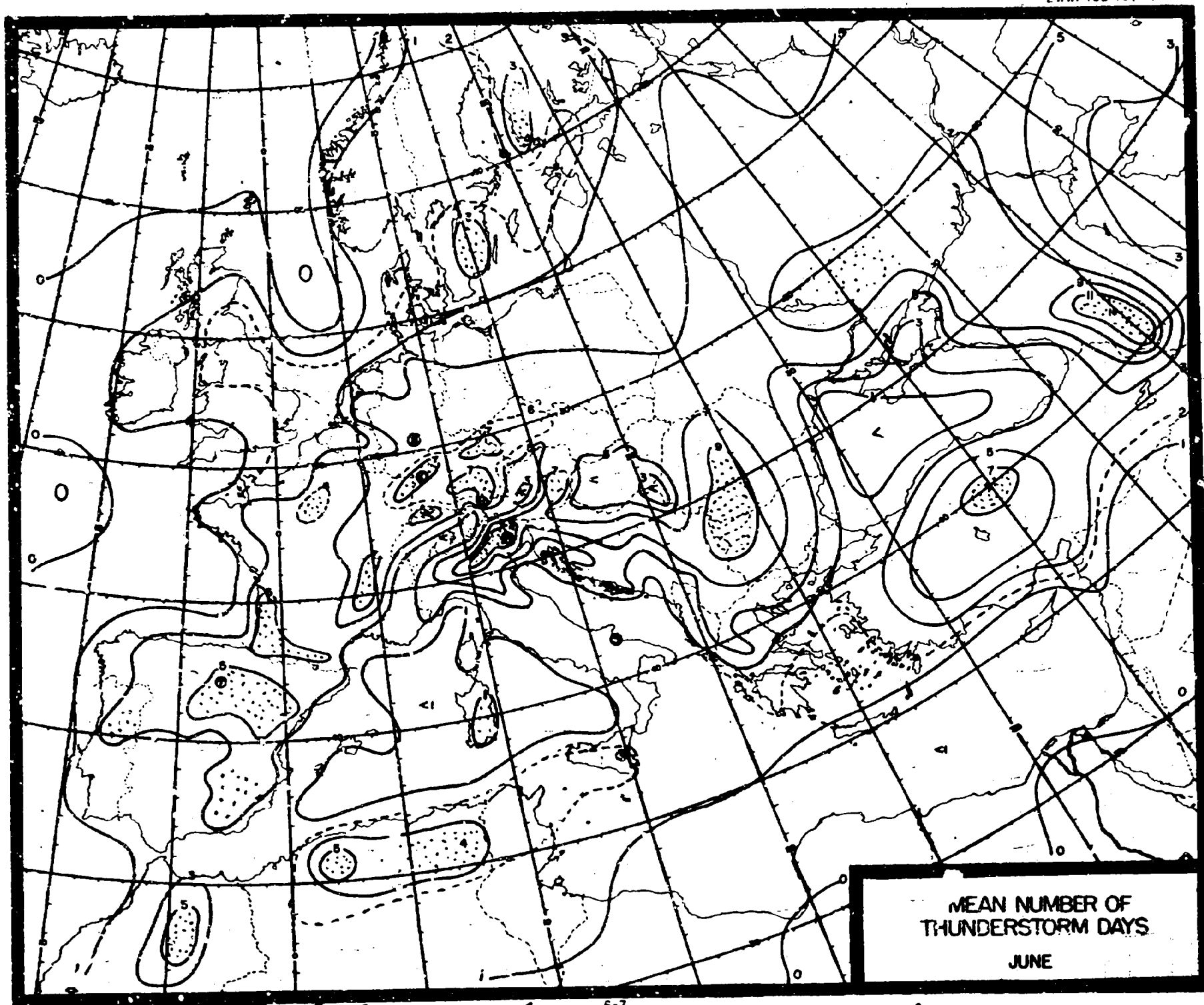

MEAN MAXIMUM
TEMPERATURE (°F)
JUNE

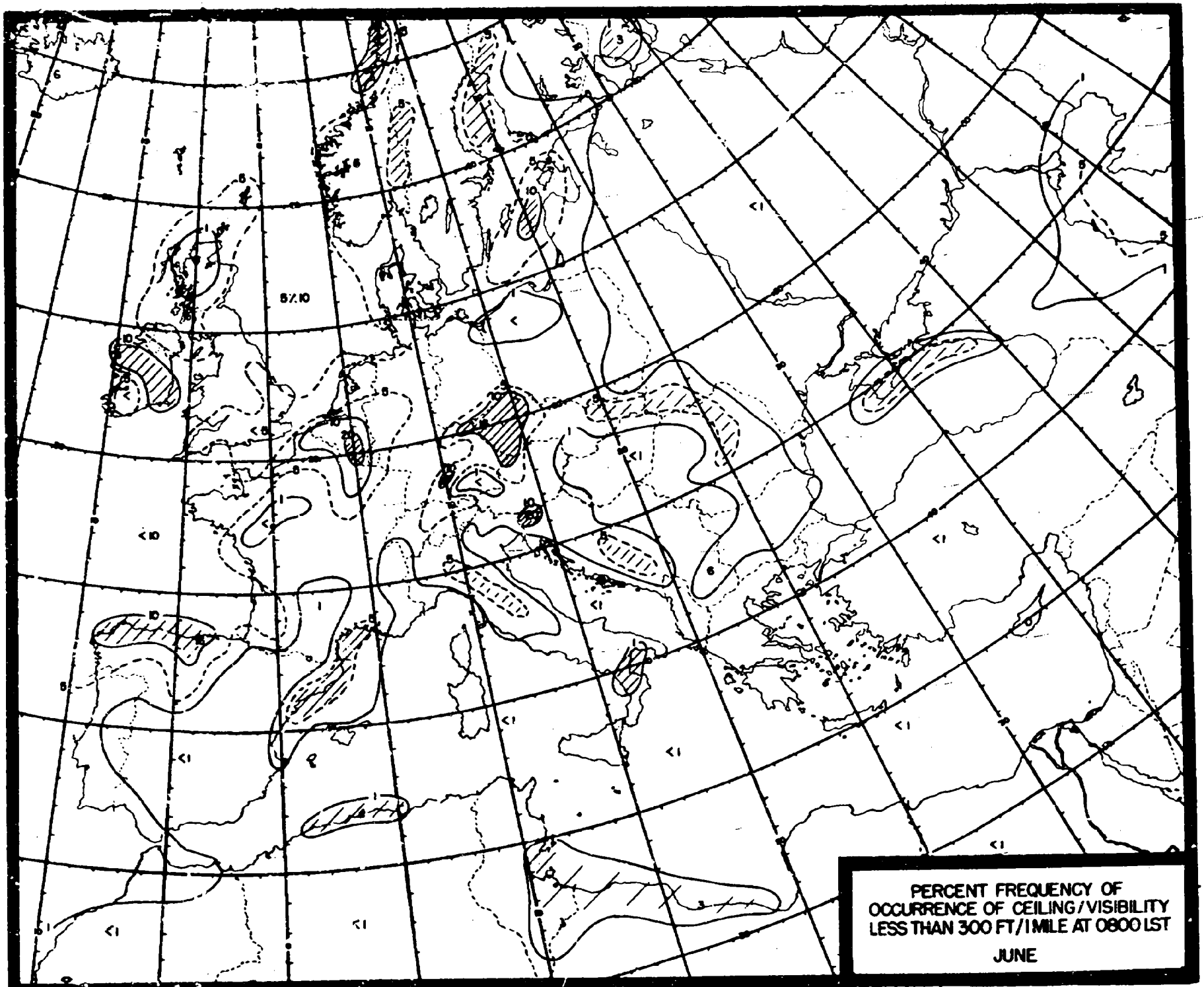

MEAN MINIMUM
TEMPERATURE (°F)
JUNE

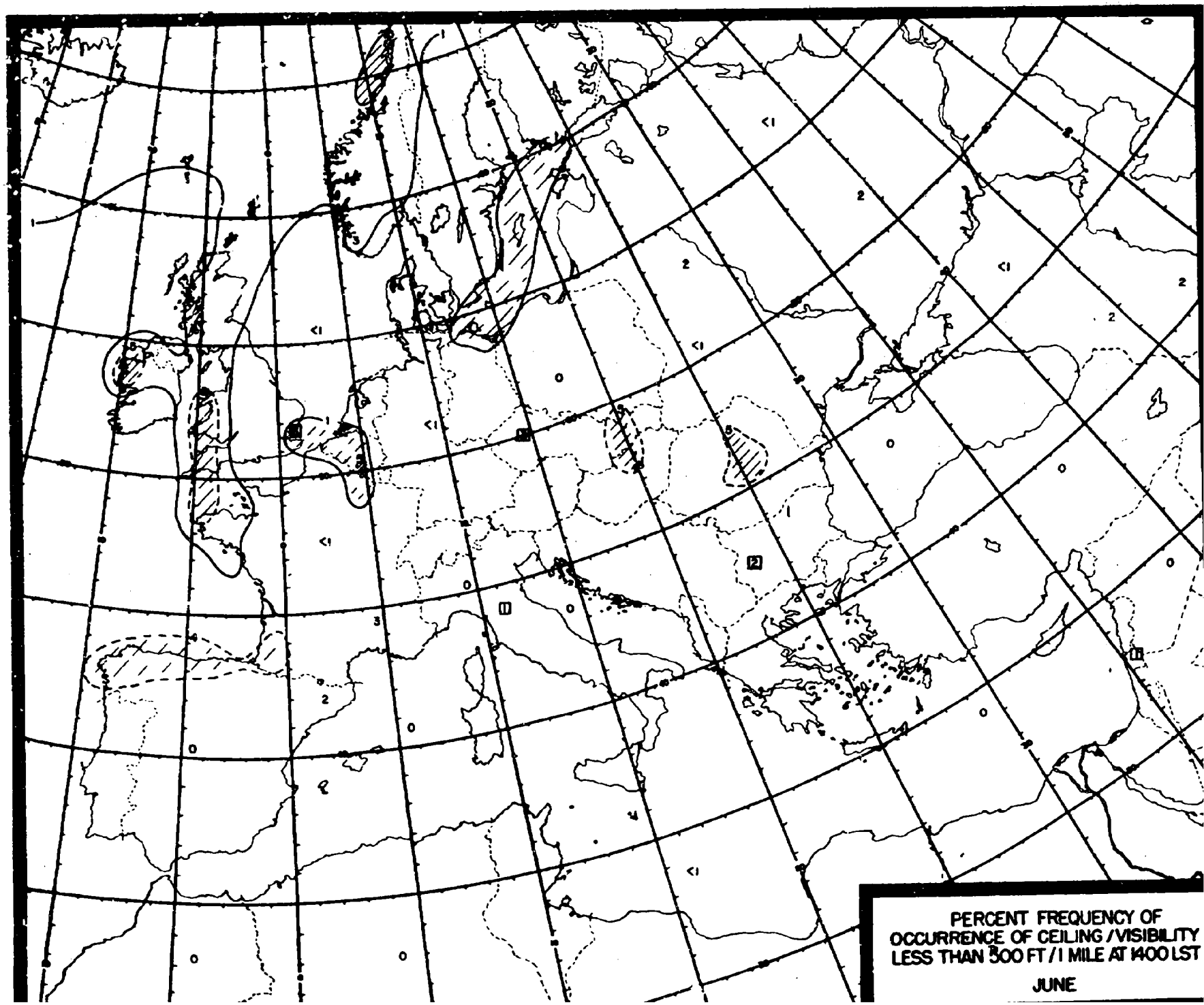

EXTREME MINIMUM
TEMPERATURE (°F)
JUNE

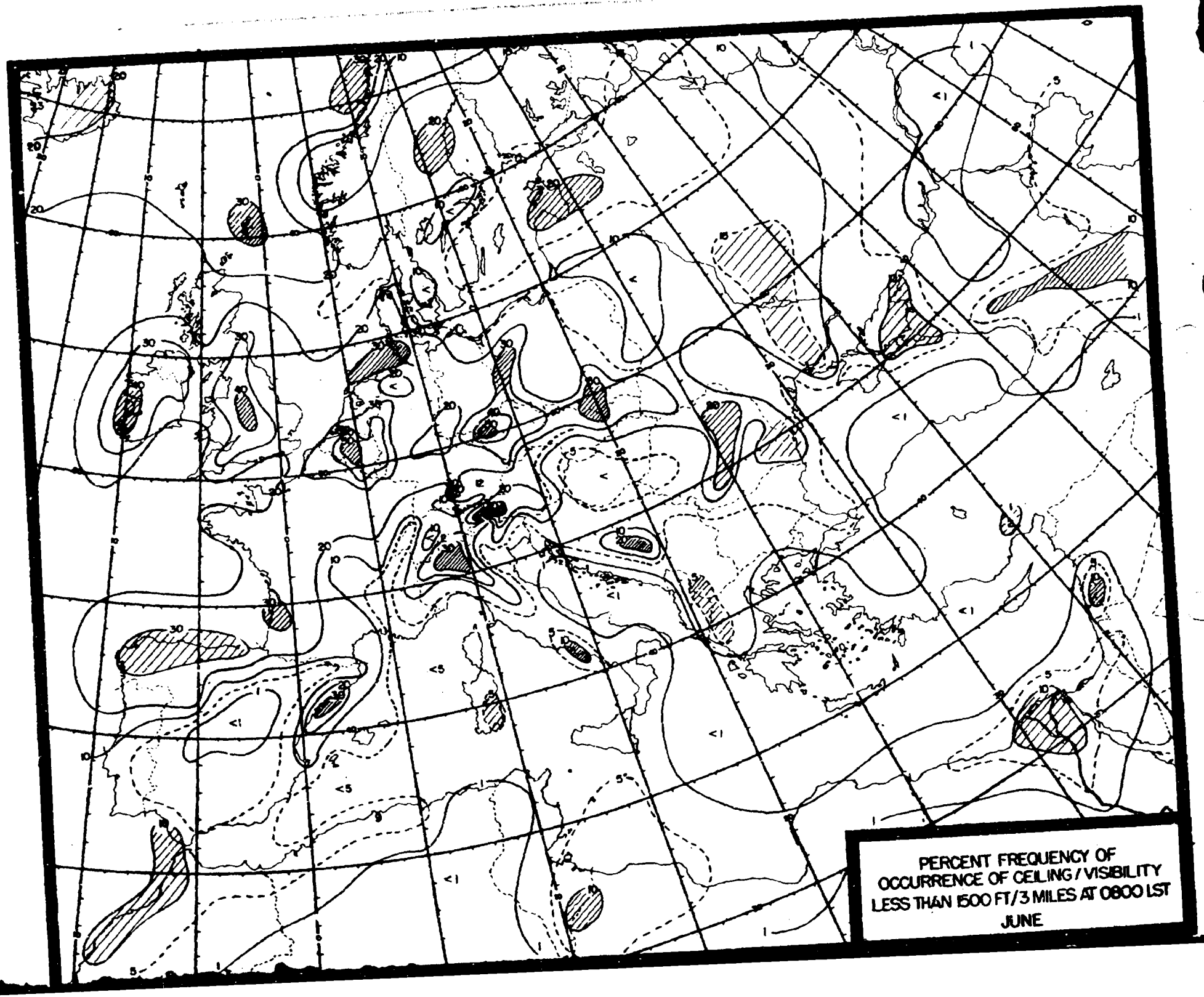

MEAN MONTHLY
PRECIPITATION (IN)
JUNE

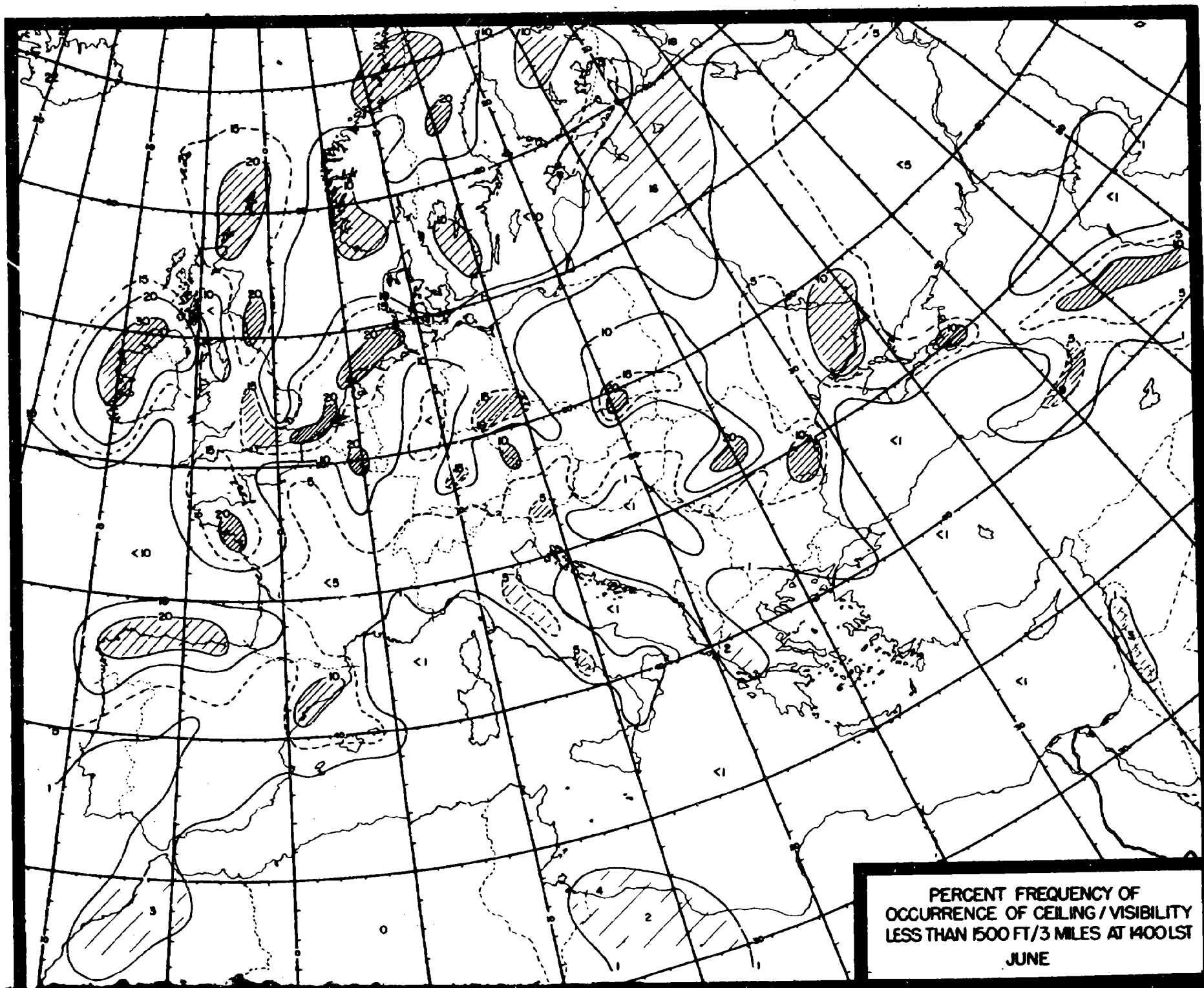

MEAN NUMBER OF
PRECIPITATION DAYS
JUNE


MEAN NUMBER OF
THUNDERSTORM DAYS
JUNE

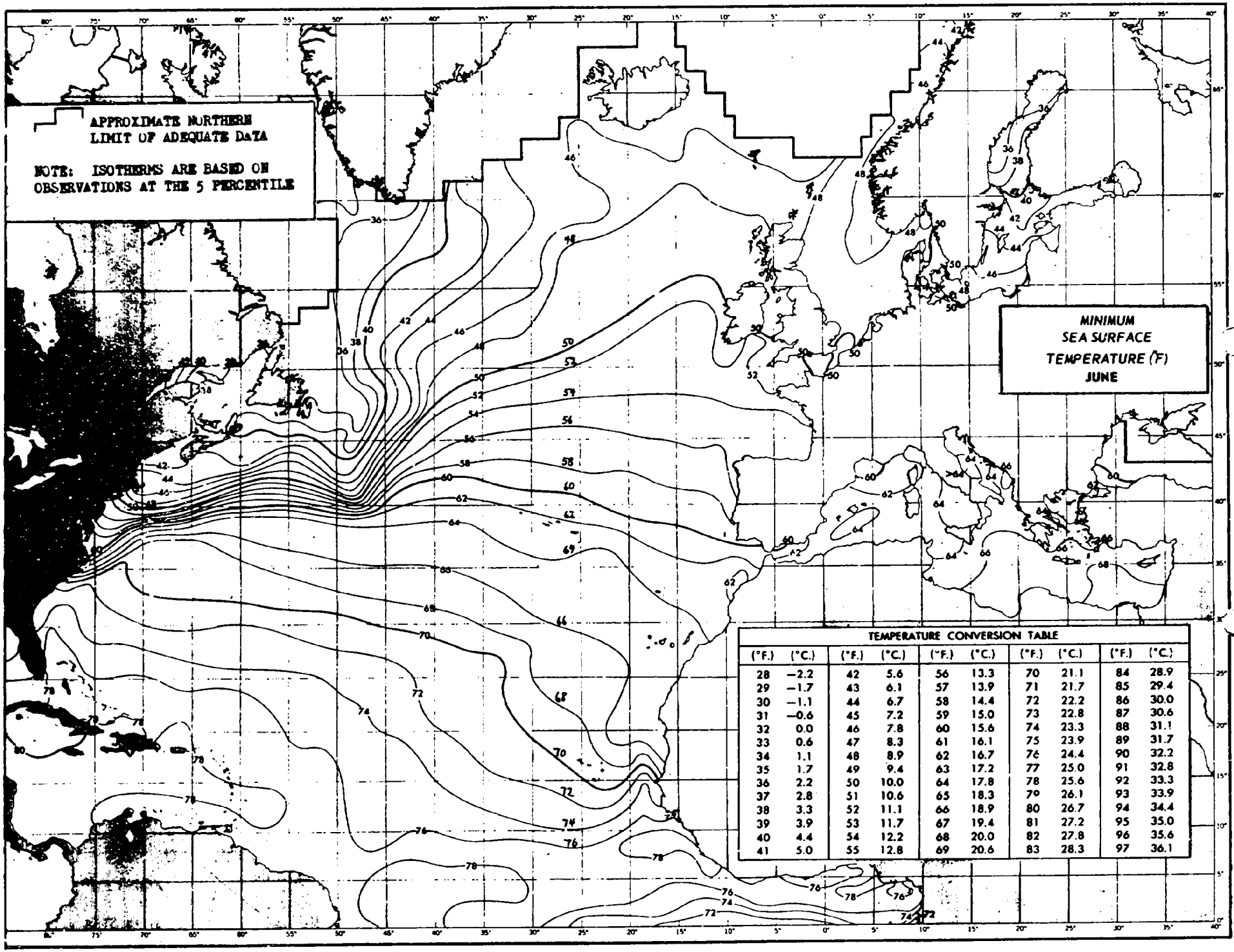

PERCENT FREQUENCY OF
OCCURRENCE OF CEILING/VISIBILITY
LESS THAN 300 FT/1 MILE AT 0800 LST
JUNE


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 500 FT / 1 MILE AT 1400 LST
JUNE


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 0800 LST
JUNE

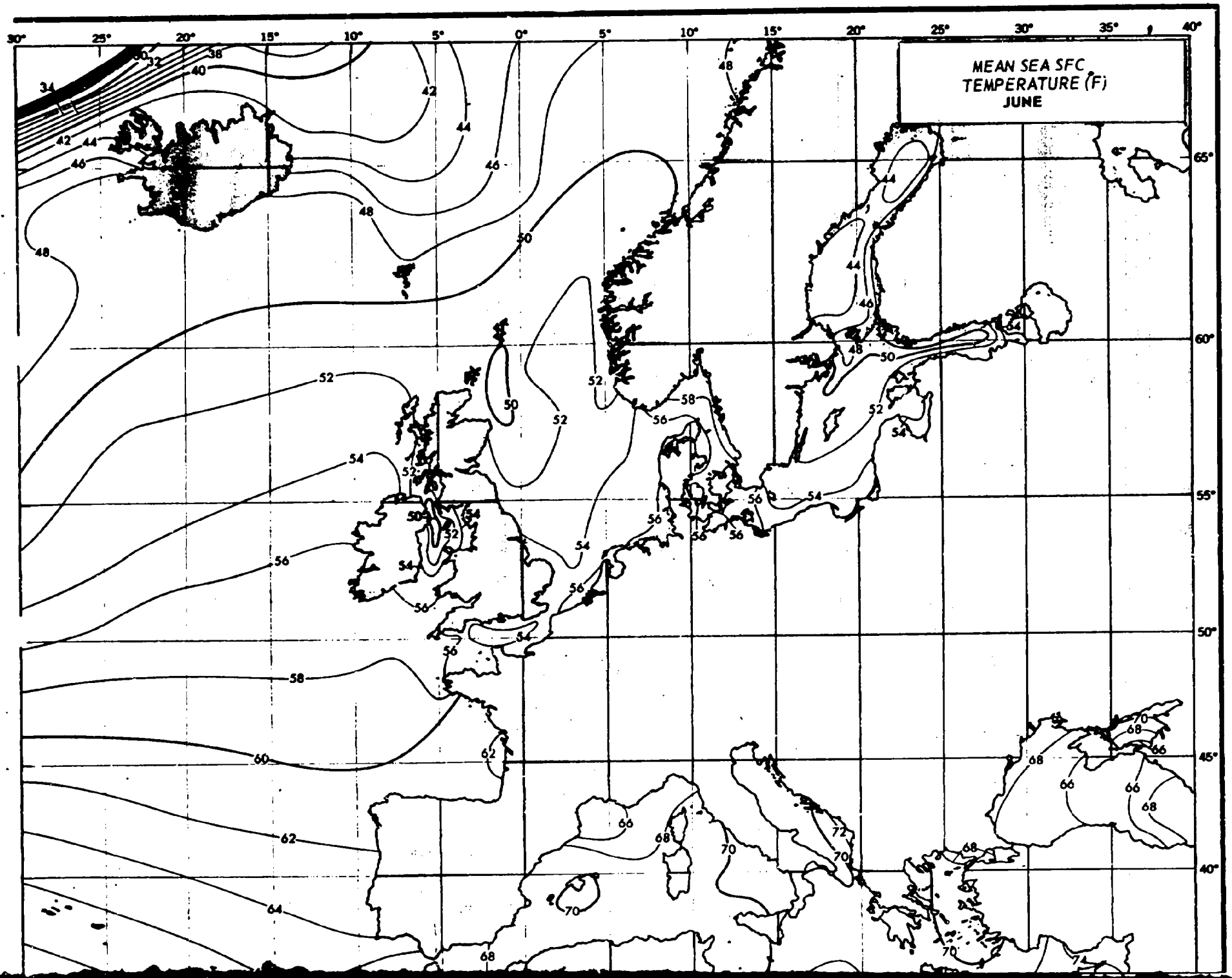


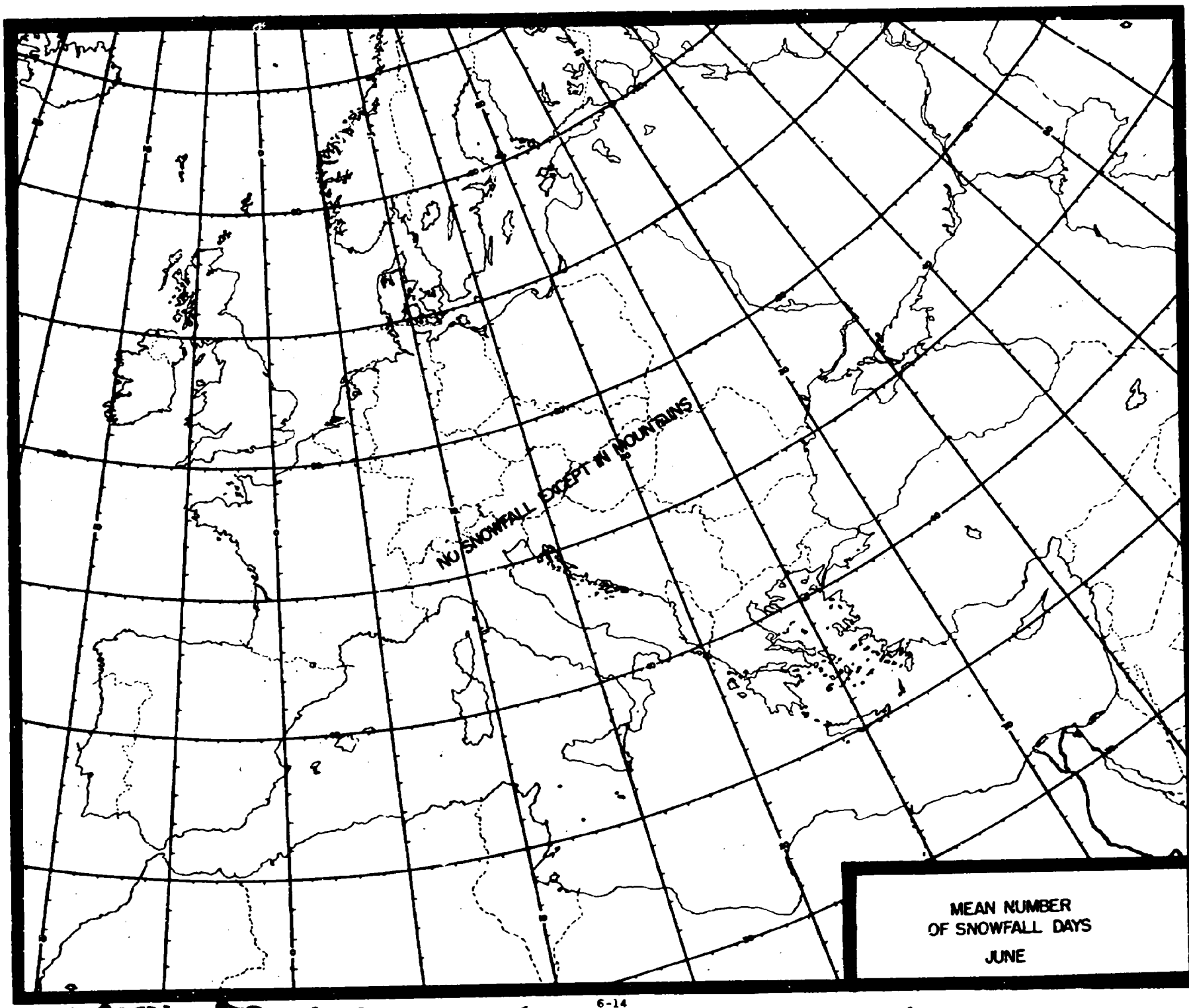
PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 1400 LST
JUNE

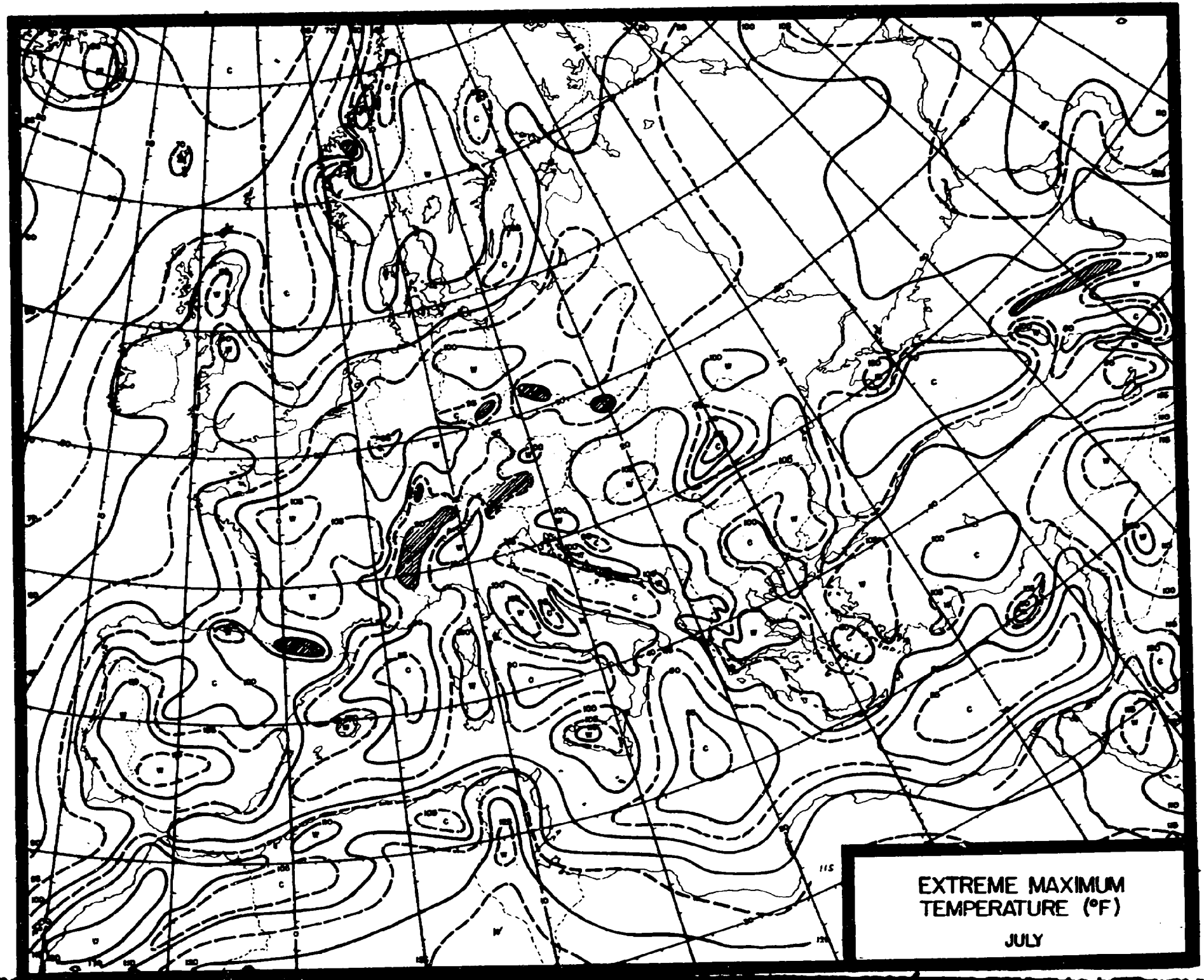


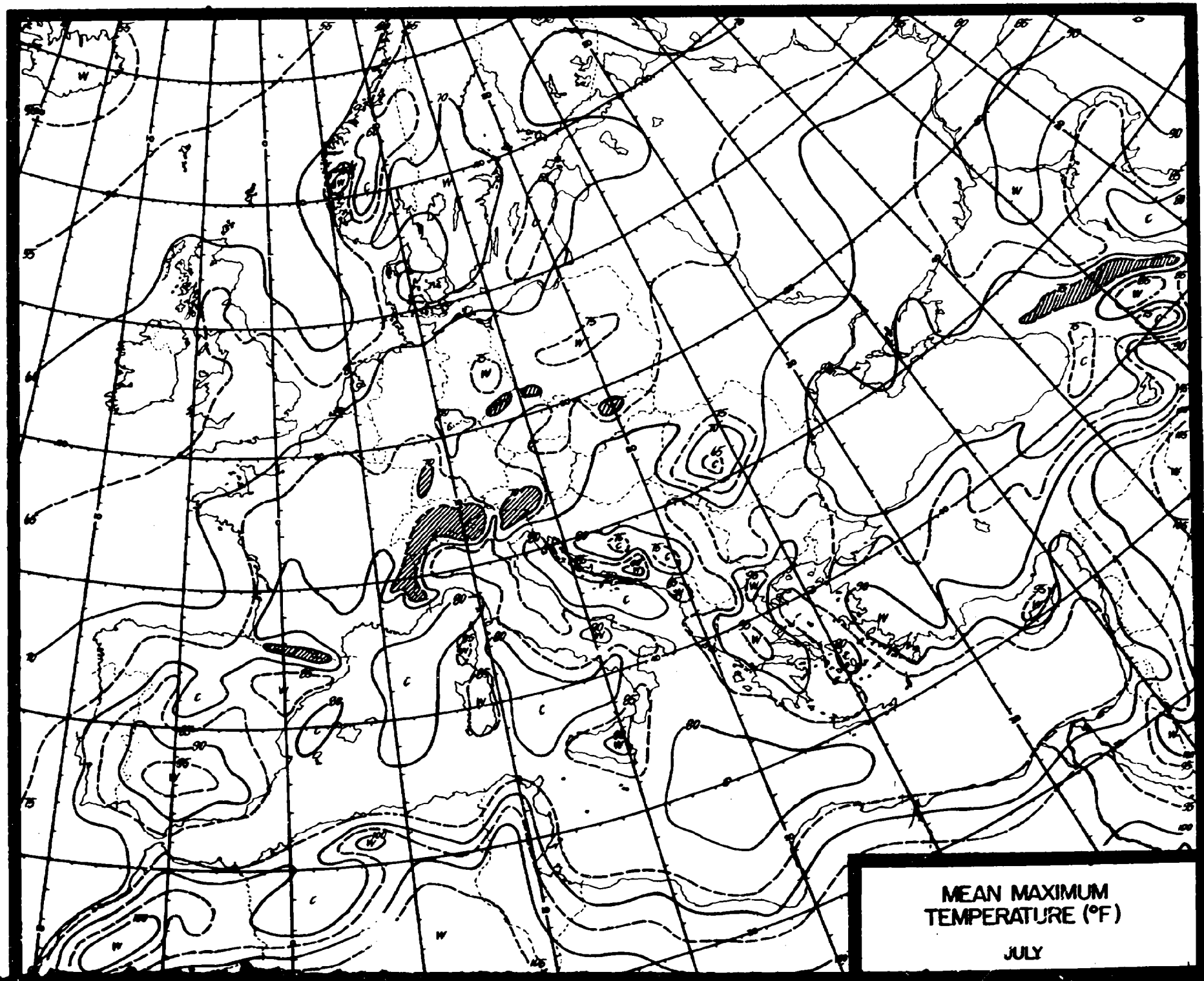
TEMPERATURE CONVERSION TABLE

(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)
28	−2.2	42	5.6	56	13.3	70	21.1	84	28.9
29	−1.7	43	6.1	57	13.9	71	21.7	85	29.4
30	−1.1	44	6.7	58	14.4	72	22.2	86	30.0
31	−0.6	45	7.2	59	15.0	73	22.8	87	30.6
32	0.0	46	7.8	60	15.6	74	23.3	88	31.1
33	0.6	47	8.3	61	16.1	75	23.9	89	31.7
34	1.1	48	8.9	62	16.7	76	24.4	90	32.2
35	1.7	49	9.4	63	17.2	77	25.0	91	32.8
36	2.2	50	10.0	64	17.8	78	25.6	92	33.3
37	2.8	51	10.6	65	18.3	79	26.1	93	33.9
38	3.3	52	11.1	66	18.9	80	26.7	94	34.4
39	3.9	53	11.7	67	19.4	81	27.2	95	35.0
40	4.4	54	12.2	68	20.0	82	27.8	96	35.6
41	5.0	55	12.8	69	20.6	83	28.3	97	36.1


MEAN SEA SFC
TEMPERATURE (F)
JUNE
30°
25°
20°
15°
10°
5°
0°
5°
10°
15°
20°
25°
30°
35°
40°
65°
60°
55°
50°
45°
40°

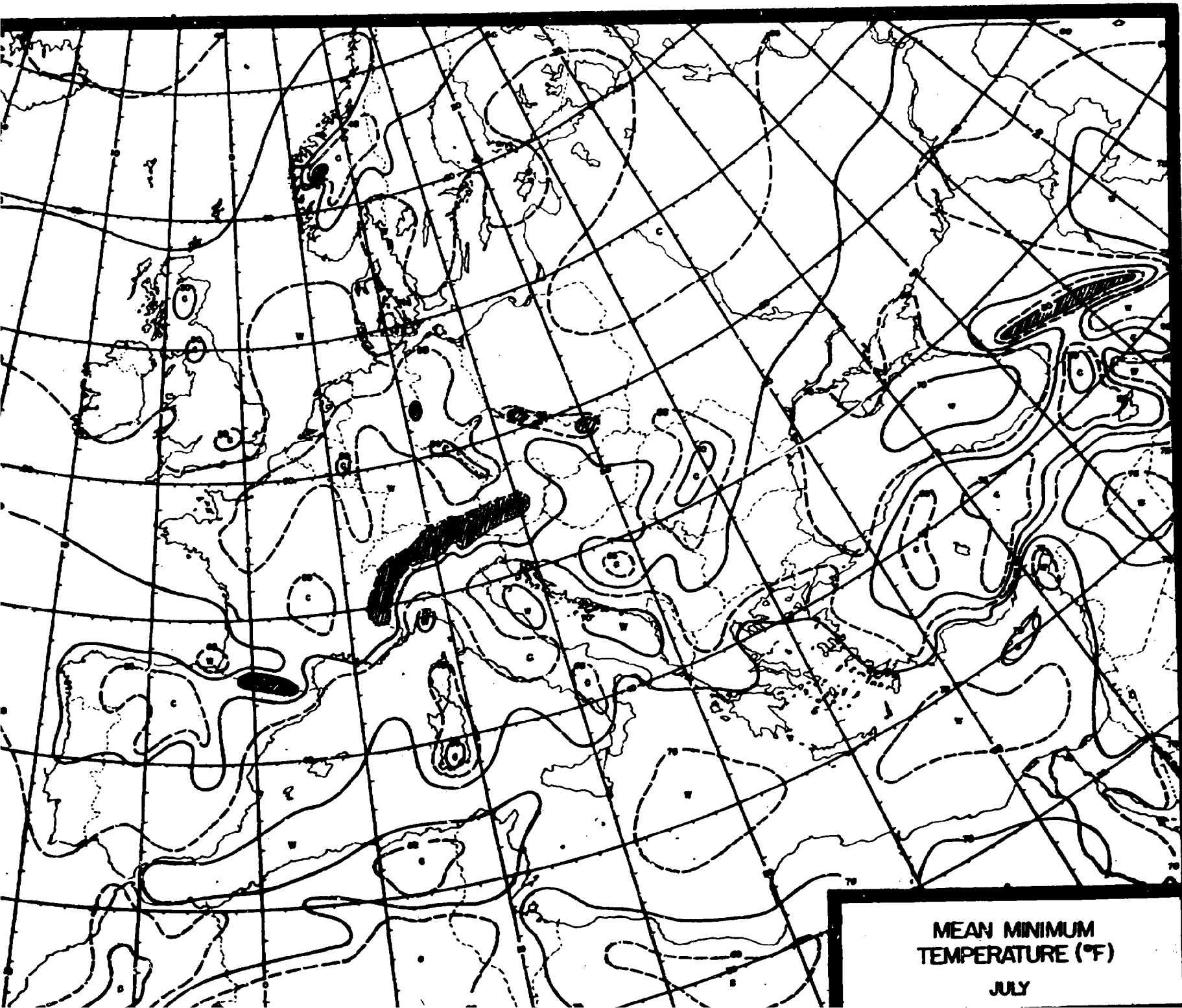

NO SNOWFALL EXCEPT IN MOUNTAINS
MEAN NUMBER
OF SNOWFALL DAYS
JUNE

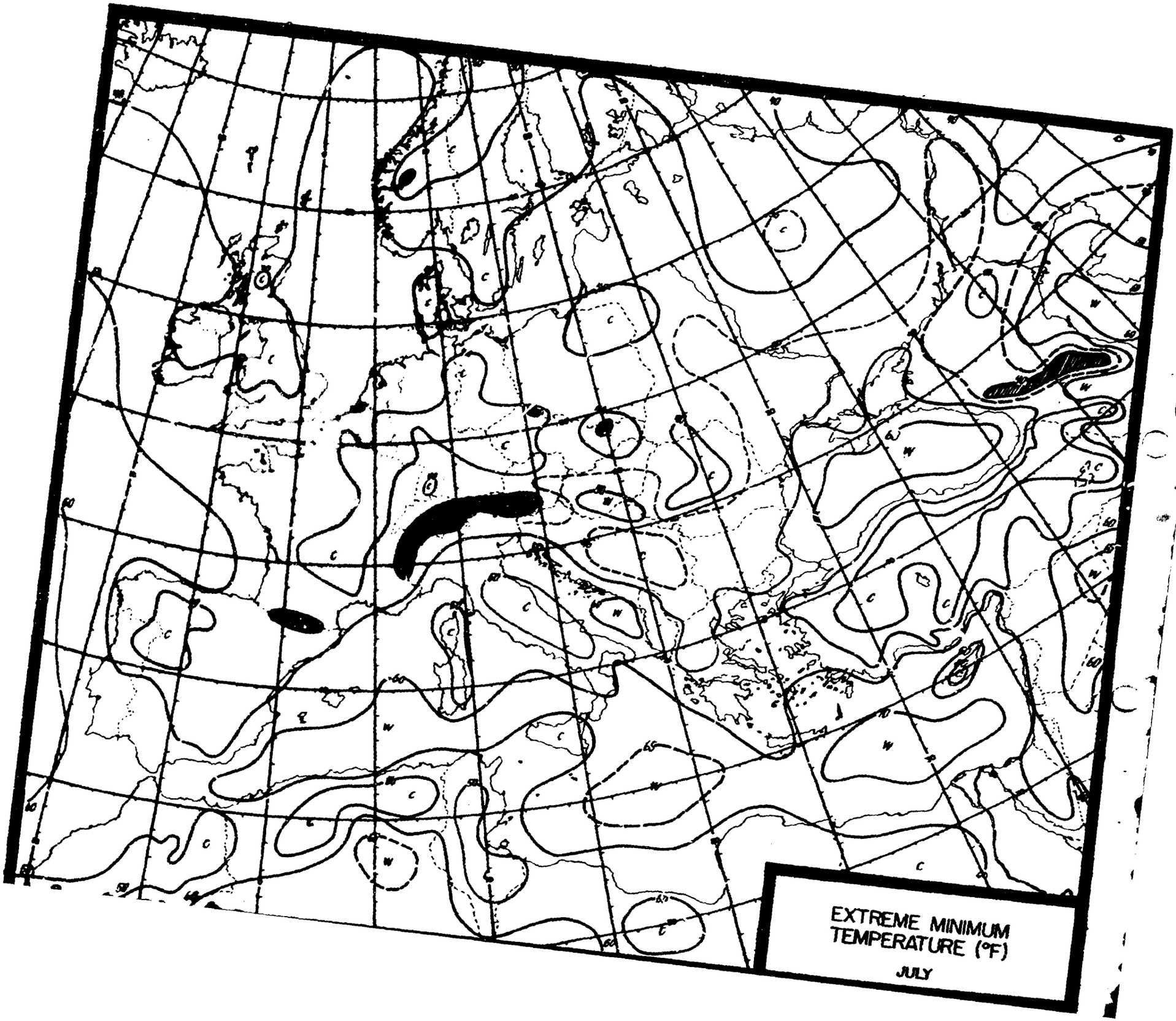

EXTREME MAXIMUM
TEMPERATURE (°F)
JULY

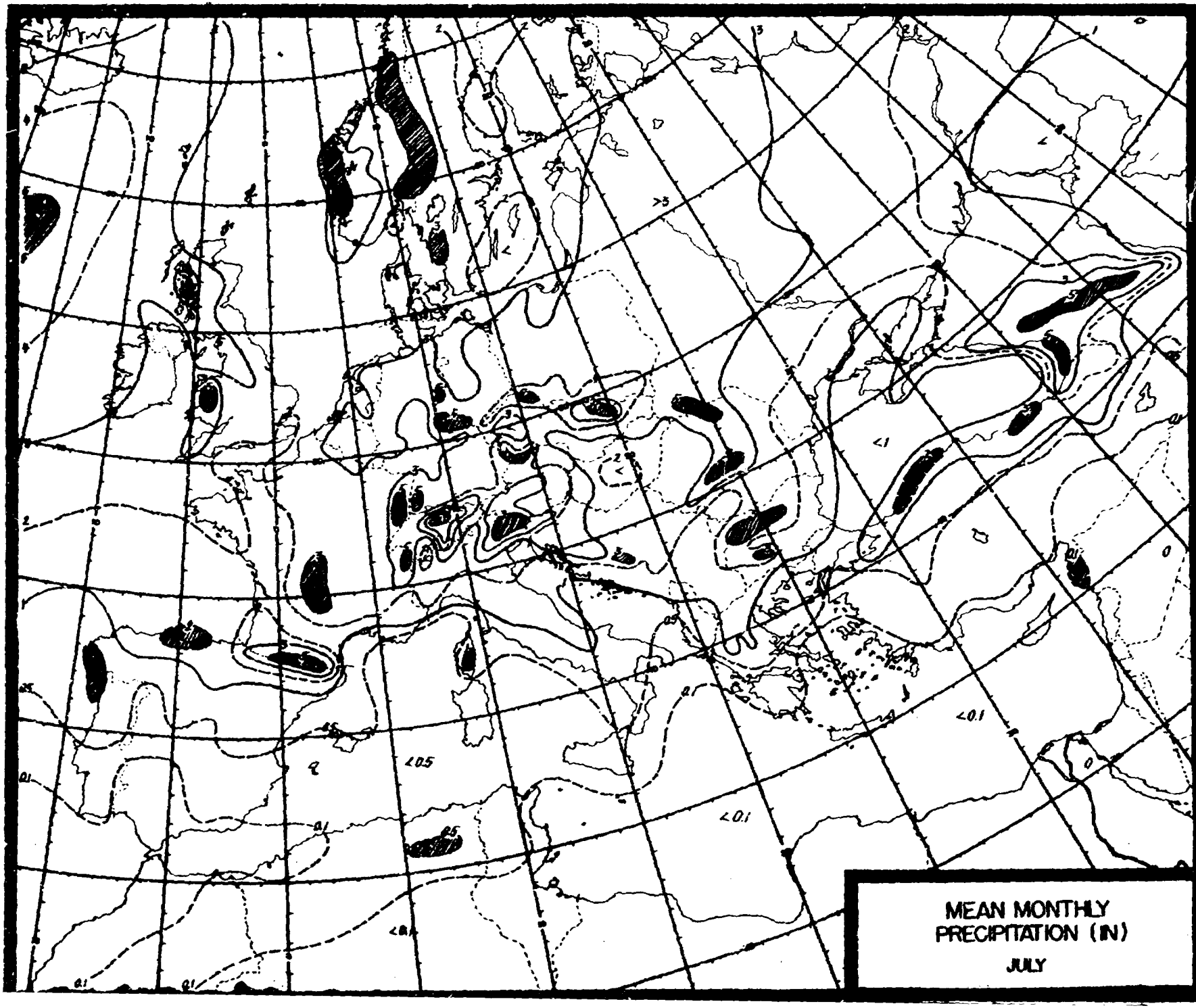


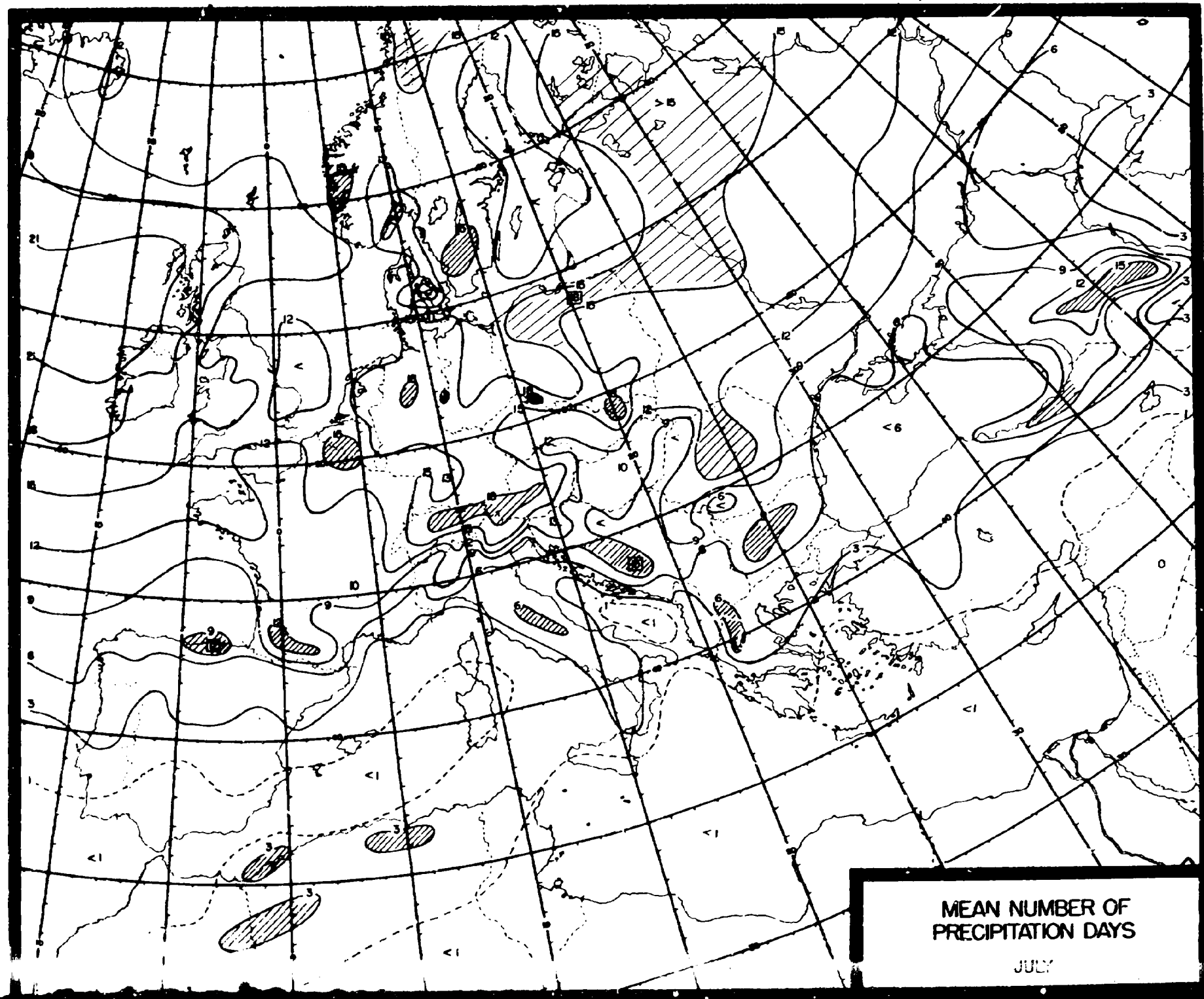
MEAN MAXIMUM
TEMPERATURE (°F)

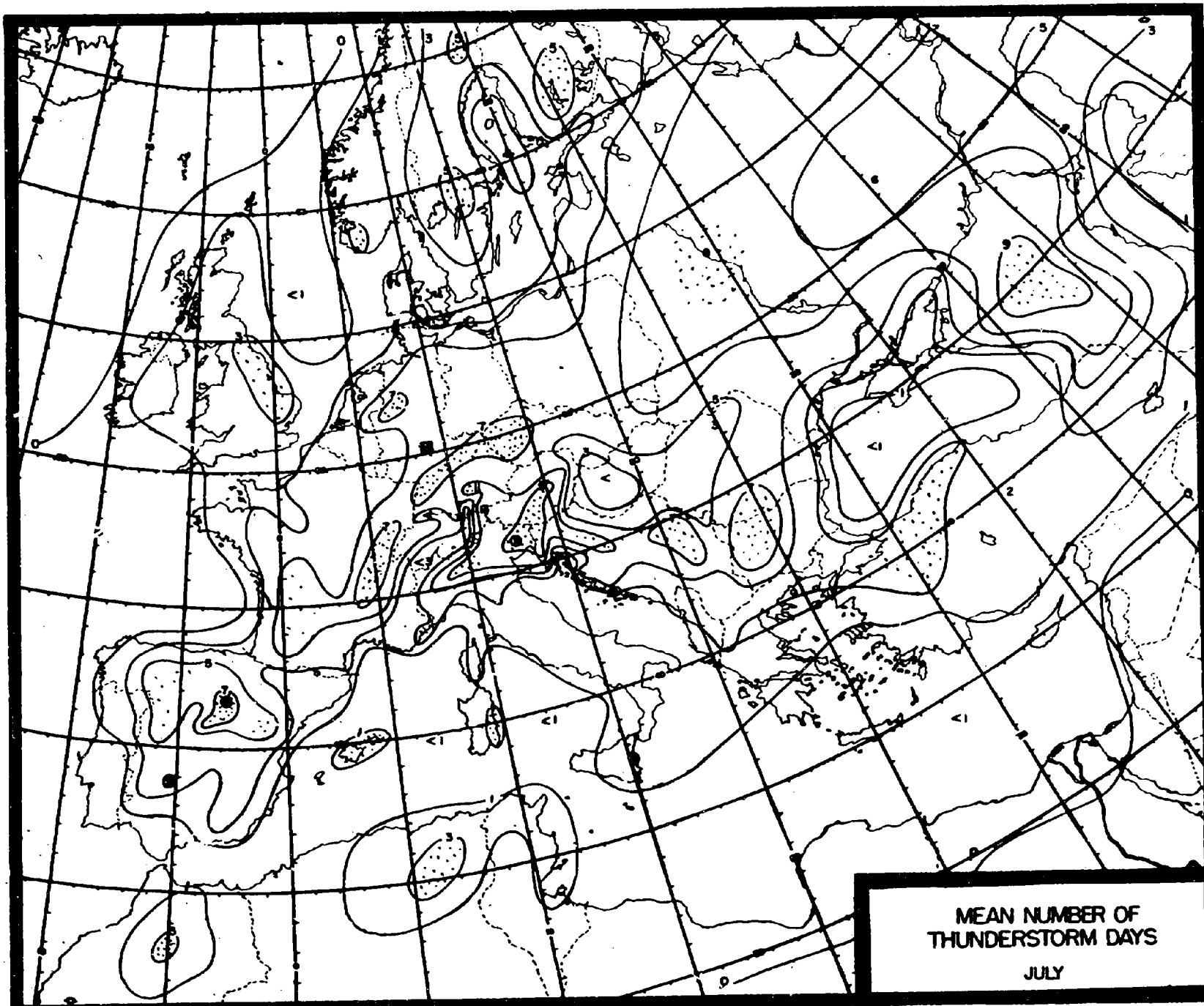
JULY

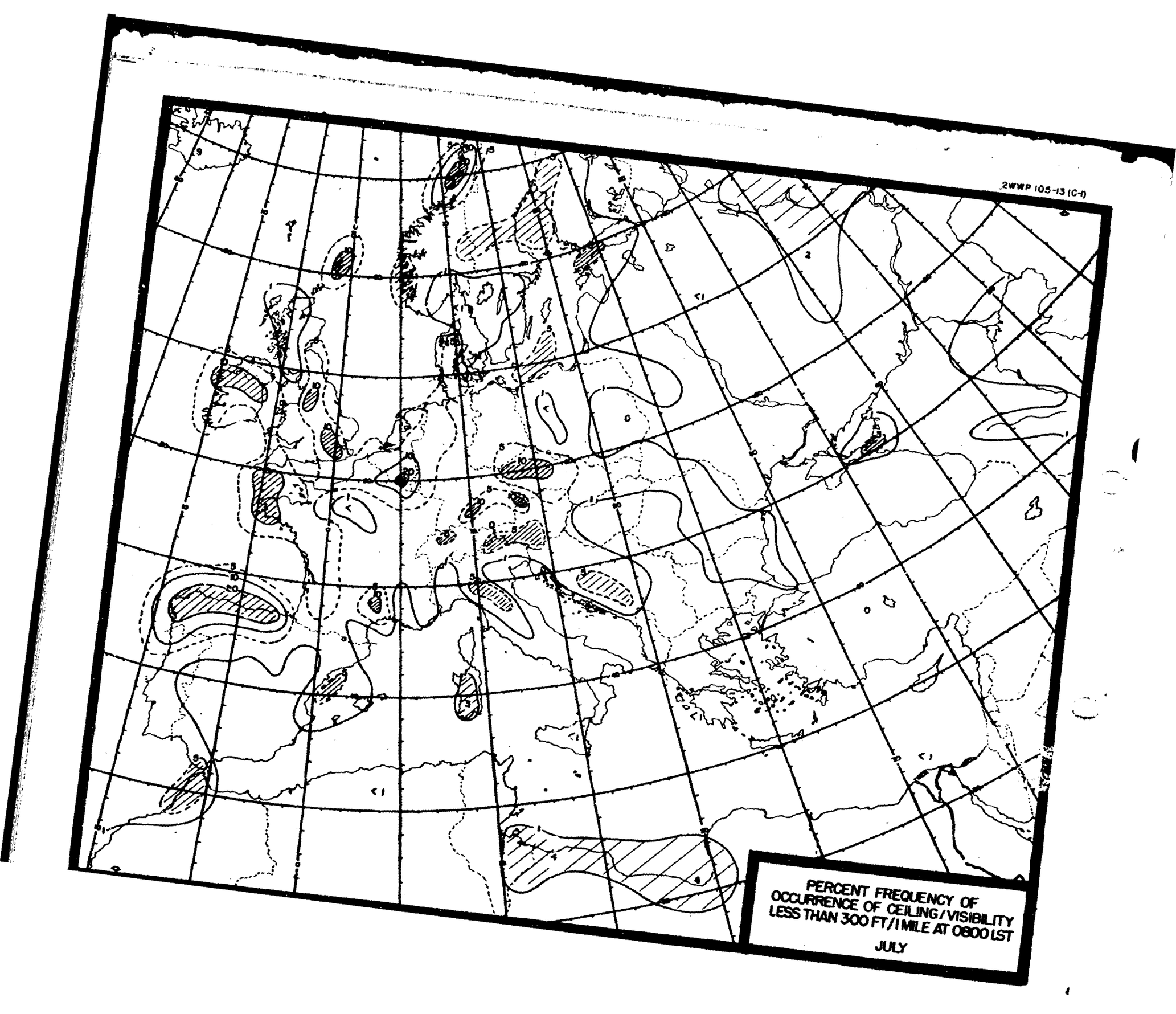

MEAN MINIMUM
TEMPERATURE (°F)
JULY

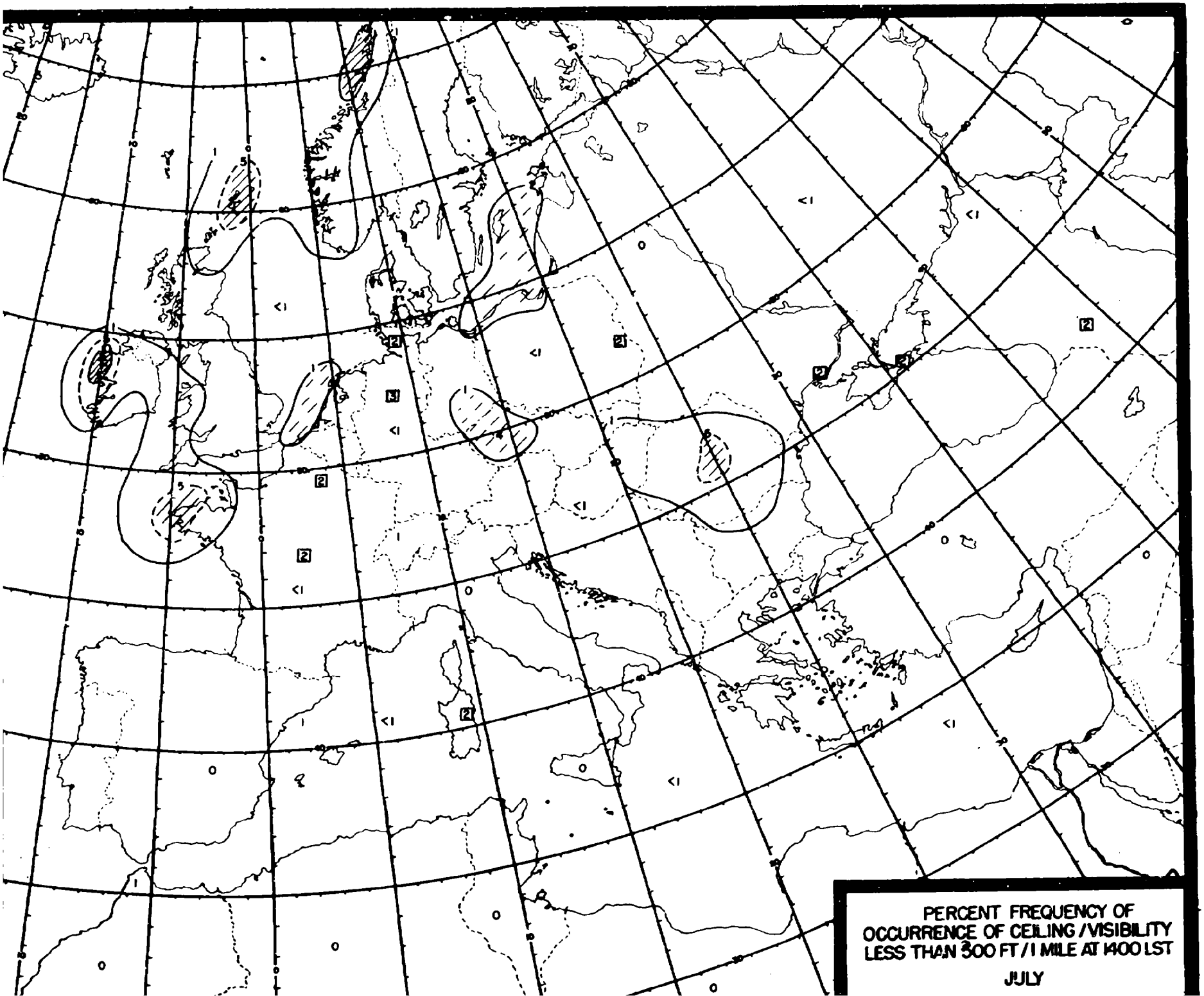

EXTREME MINIMUM
TEMPERATURE (°F)
JULY

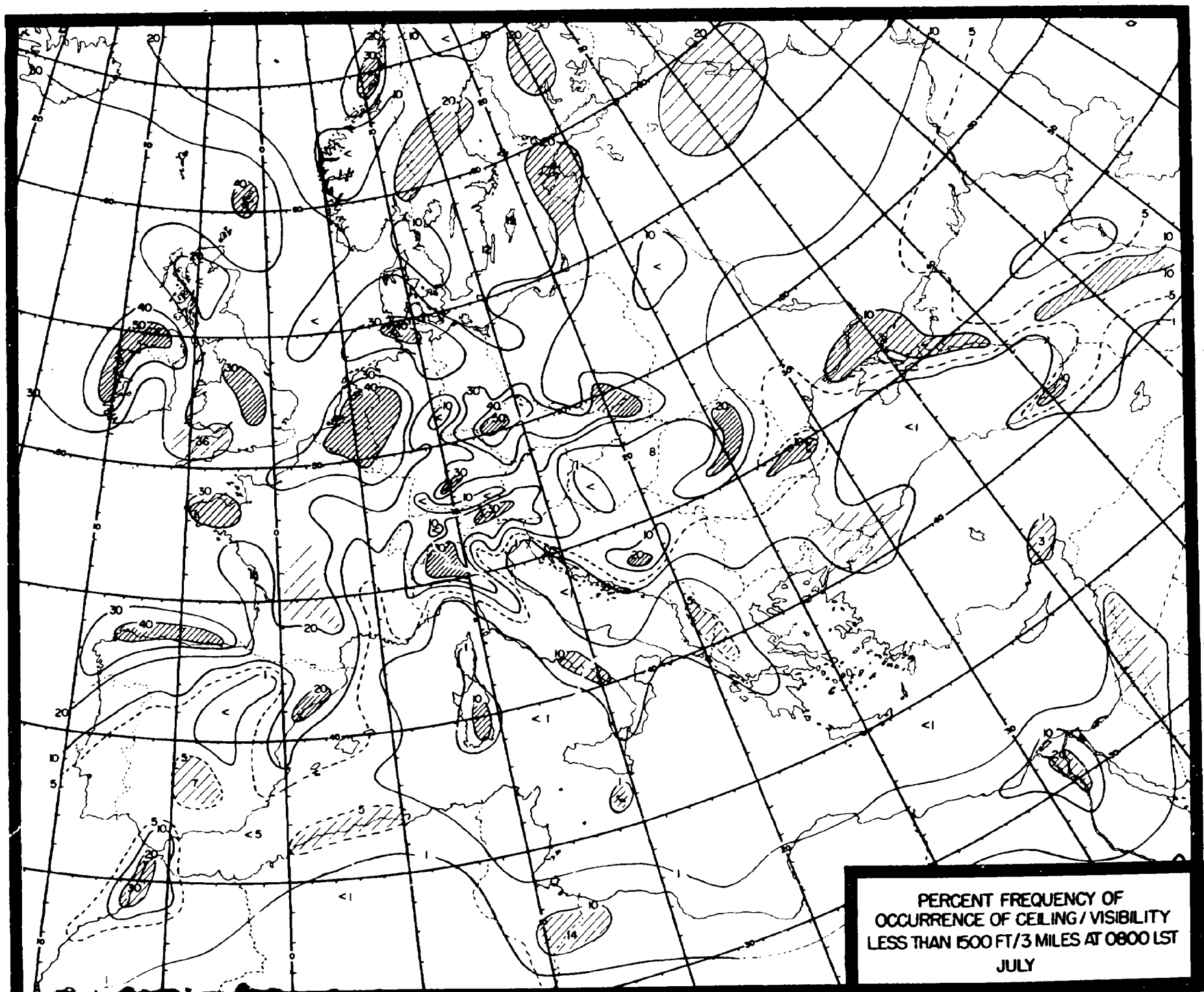

MEAN MONTHLY
PRECIPITATION (IN)
JULY


MEAN NUMBER OF
PRECIPITATION DAYS
JULY

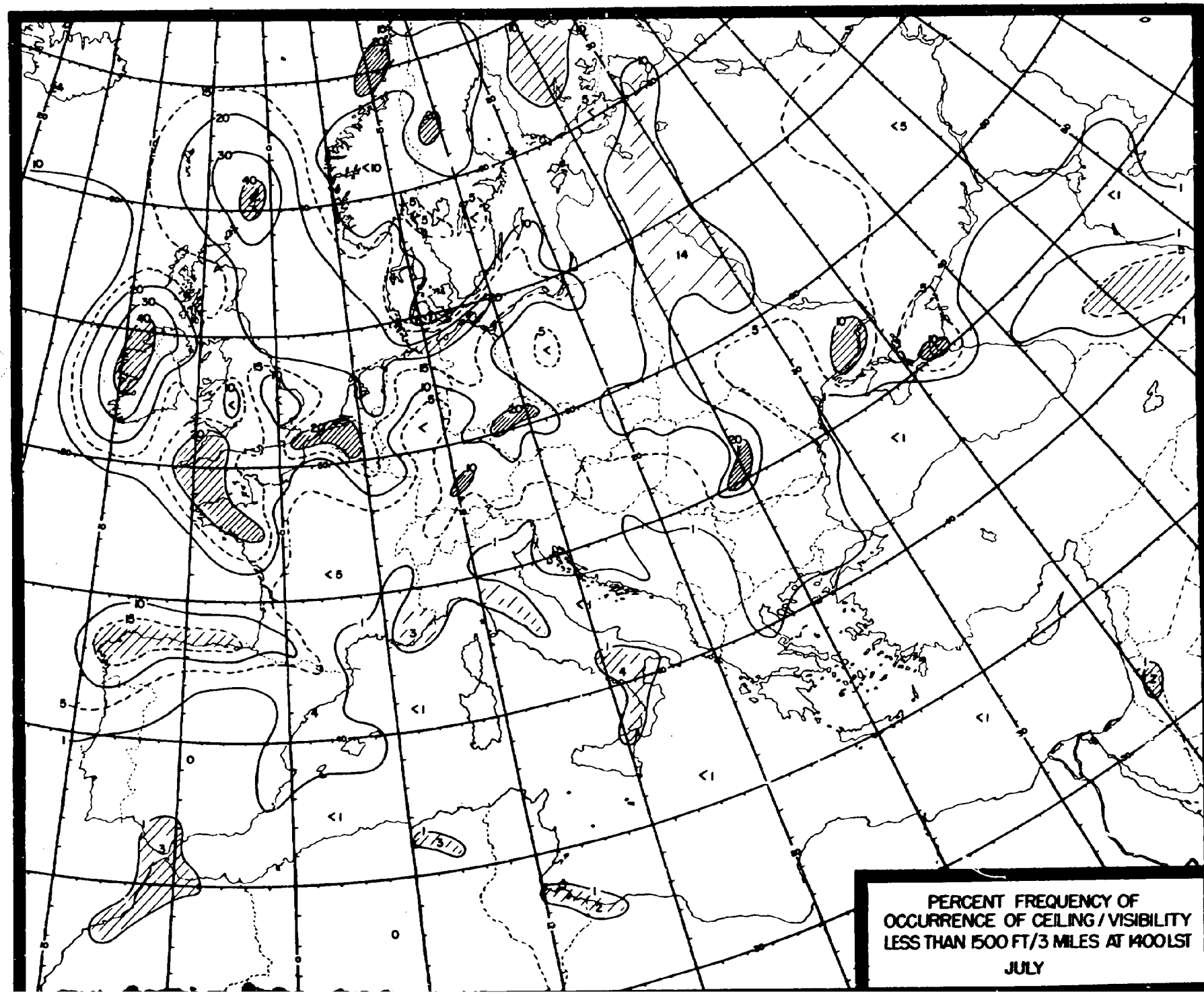

MEAN NUMBER OF
THUNDERSTORM DAYS
JULY

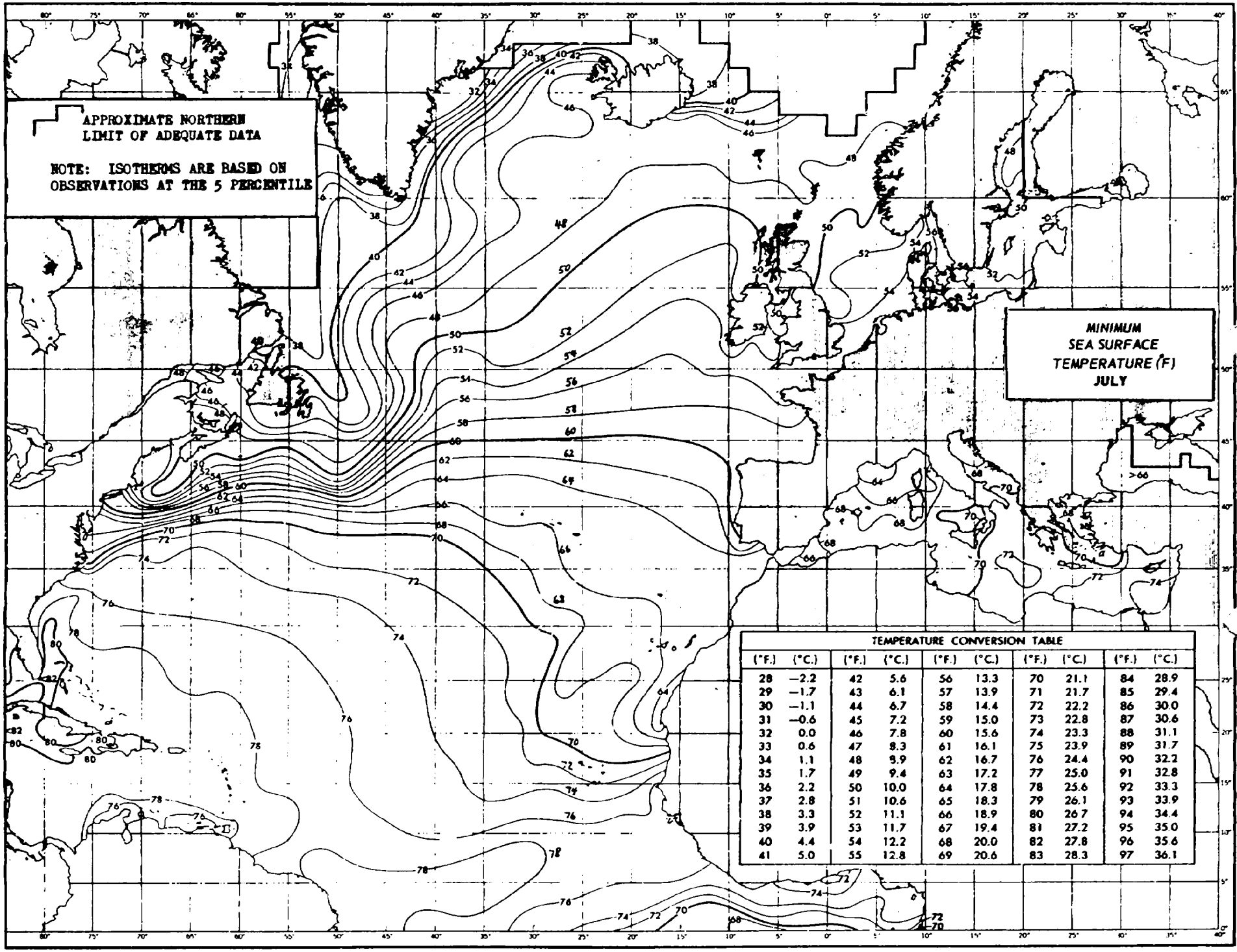

2WWP 105-13 (C-1)
PERCENT FREQUENCY OF
OCCURRENCE OF CEILING/VISIBILITY
LESS THAN 300 FT/1 MILE AT 0800 LST
JULY


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 300 FT / 1 MILE AT 1400 LST
JULY



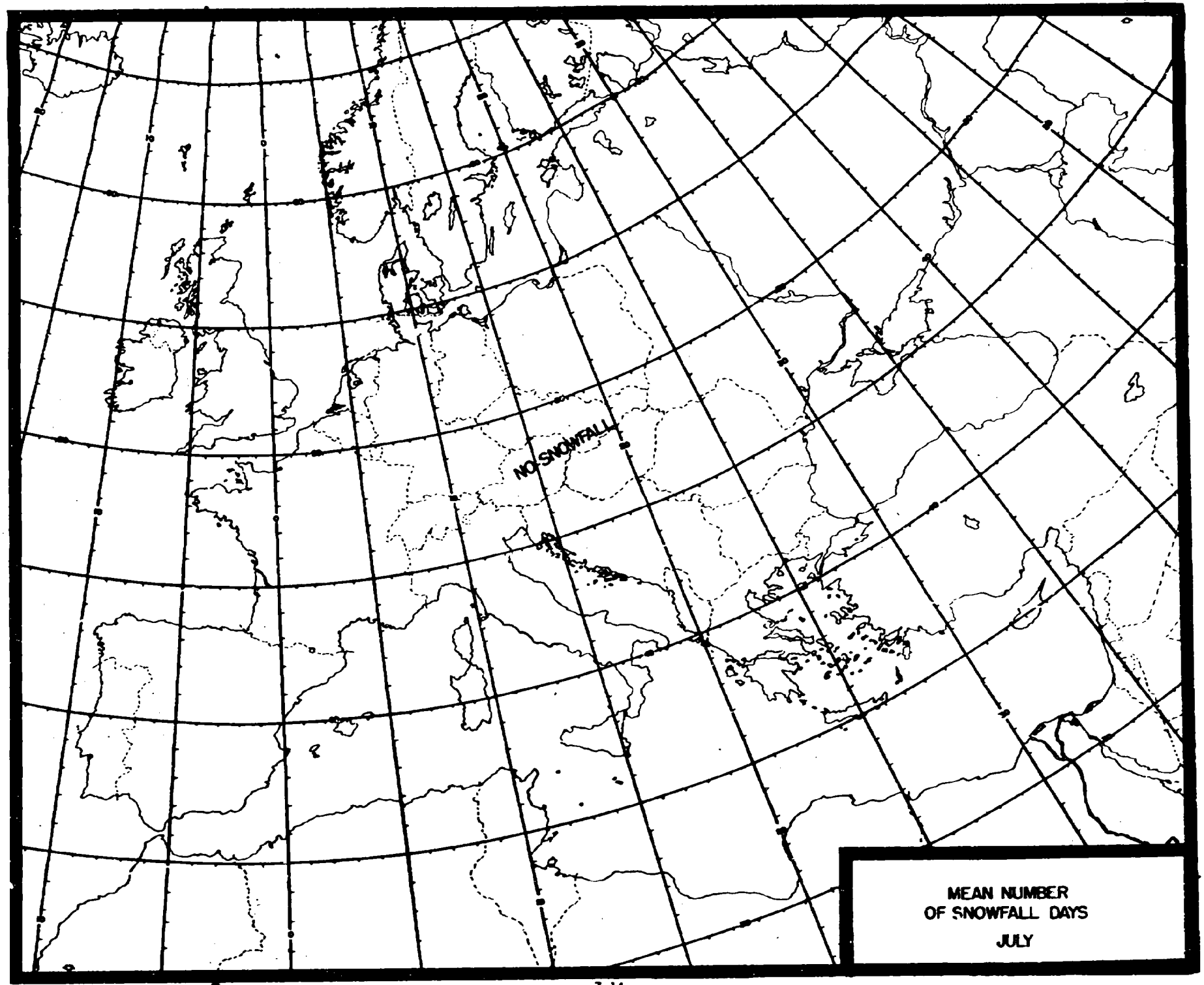
PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 0800 LST
JULY

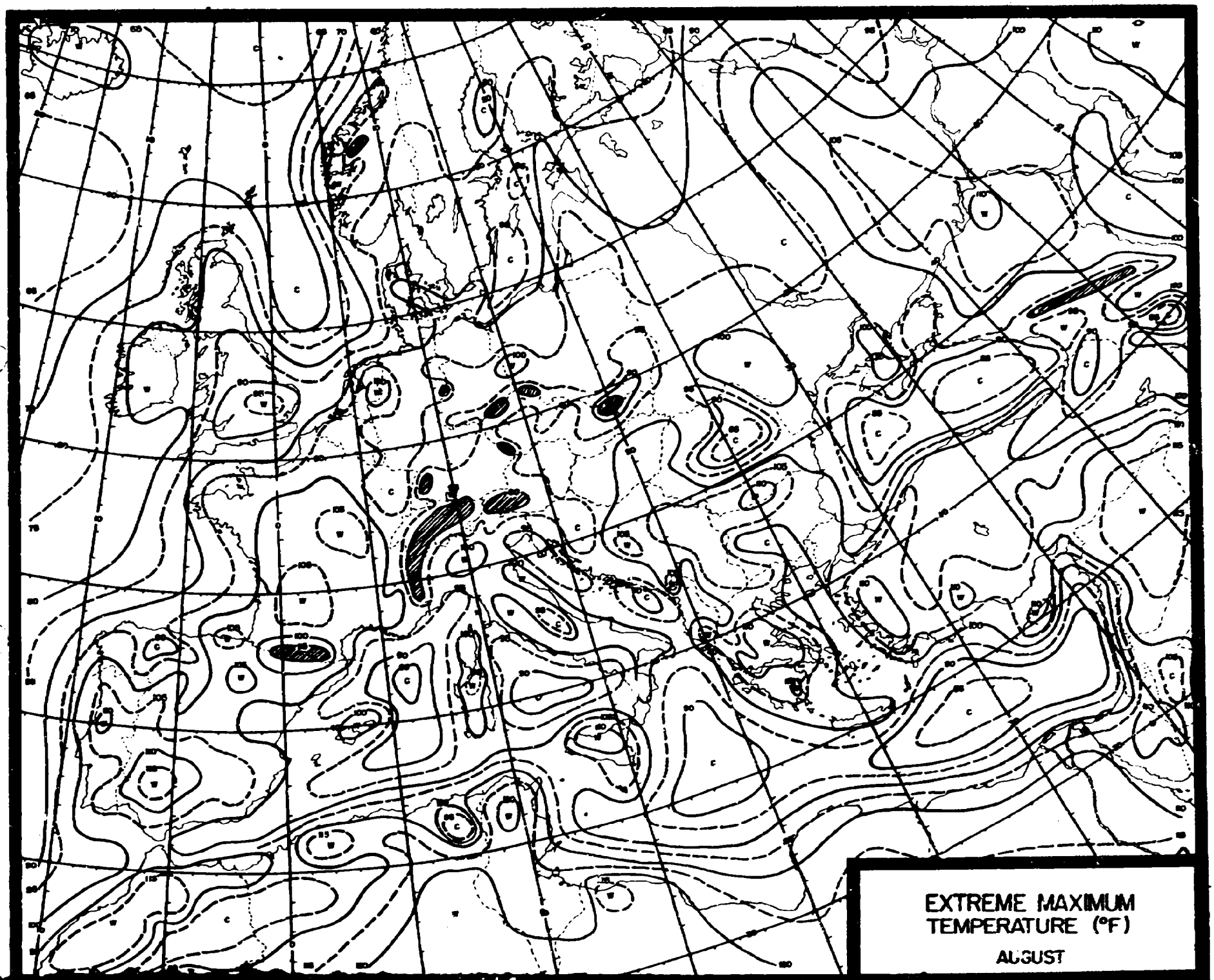

PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 1400 LST
JULY

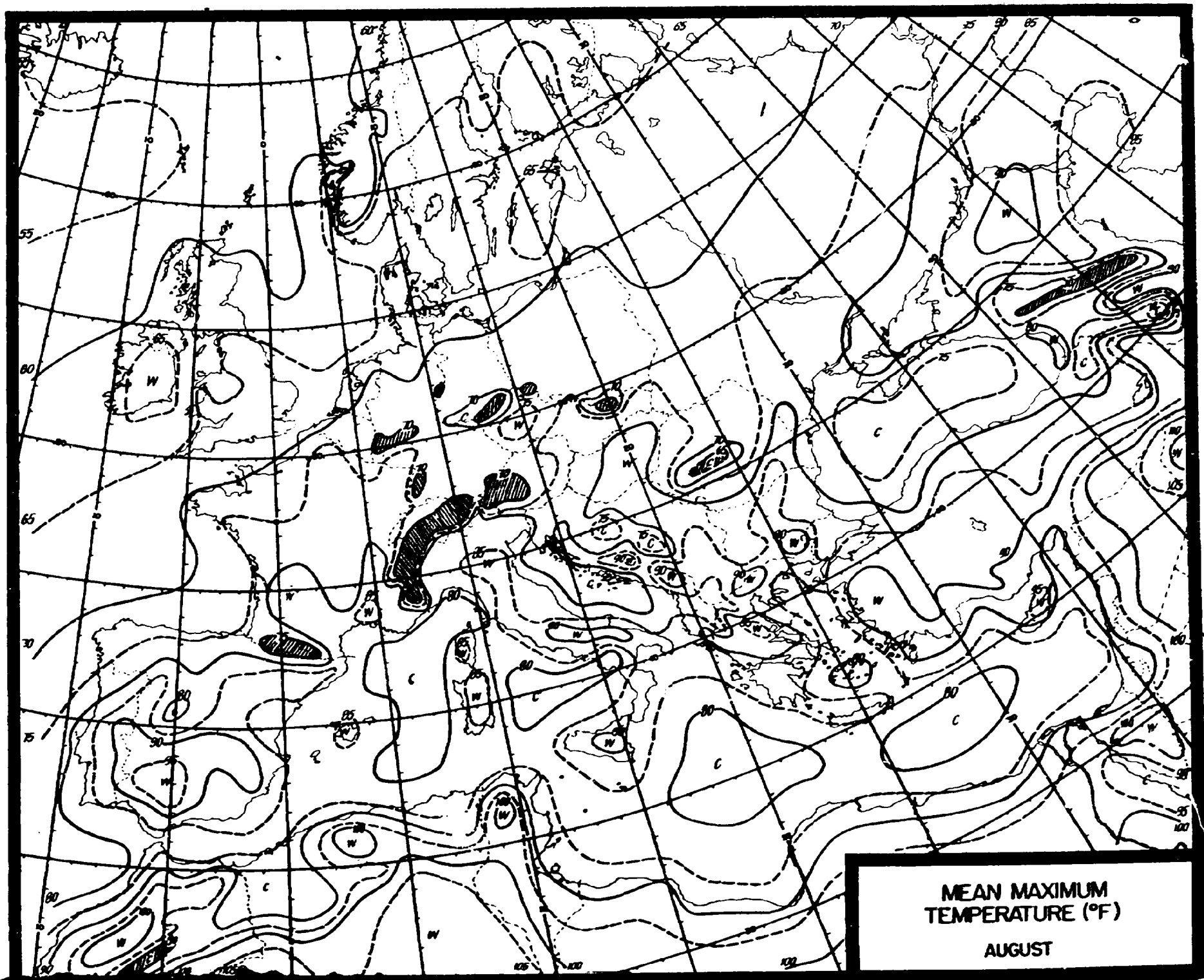


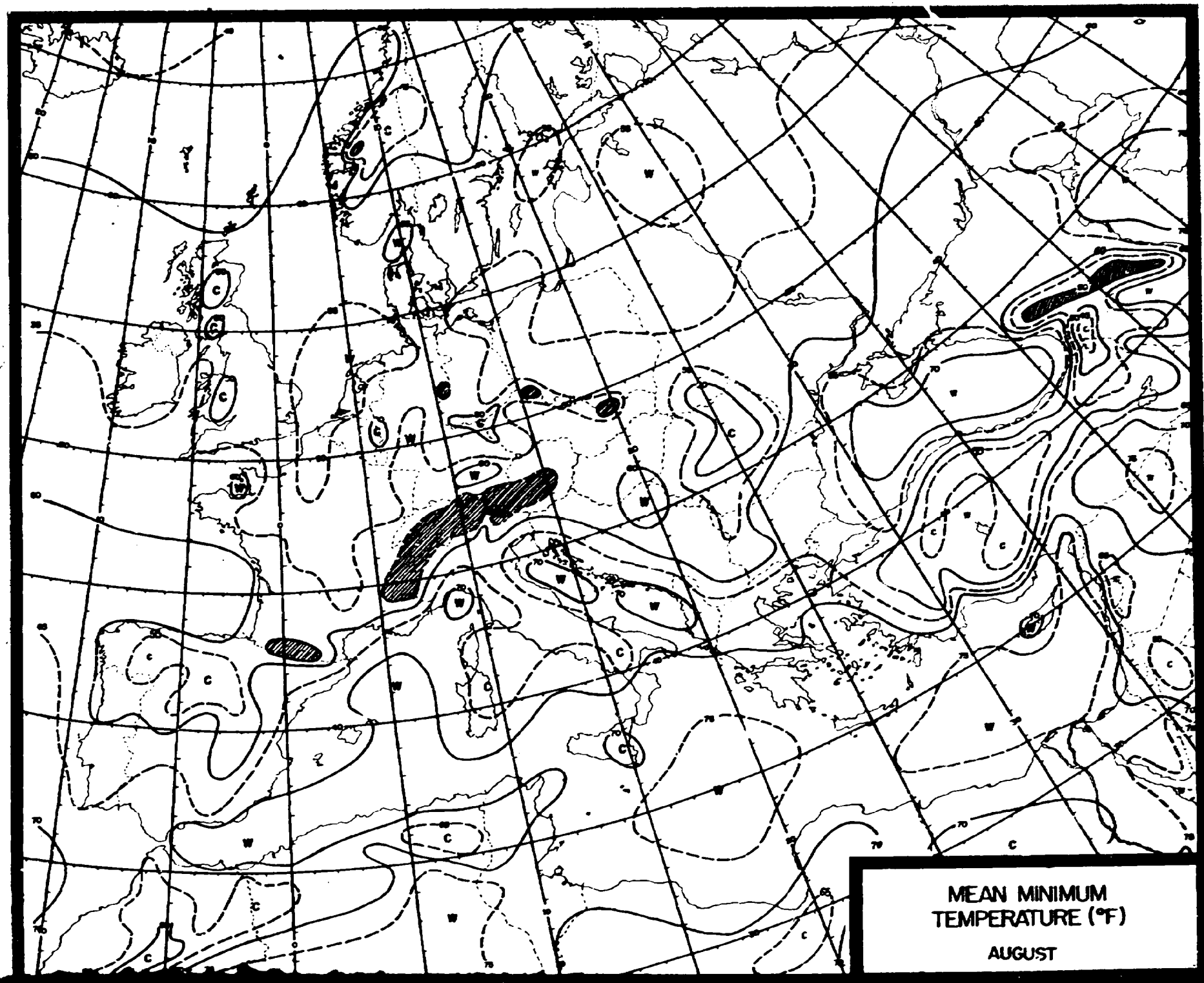
TEMPERATURE CONVERSION TABLE

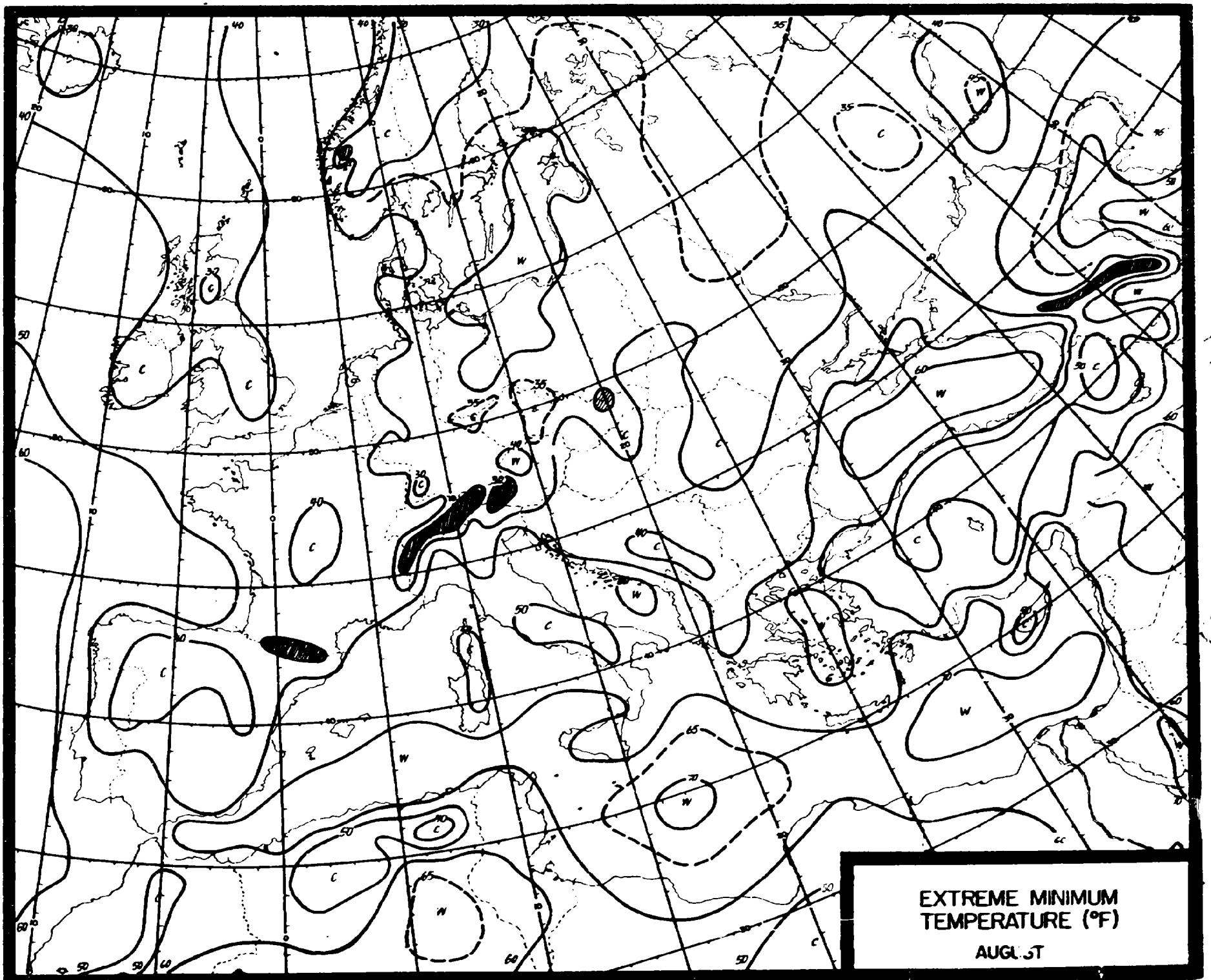
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37	2.8	51	10.6	65	18.3	79	26.1	93	33.9
38	3.3	52	11.1	66	18.9	80	26 7	94	34.4
39	3.9	53	11.7	67	19.4	81	27.2	95	35.0
40	4.4	54	12.2	68	20.0	82	27.8	96	35.6
41	5.0	55	12.8	69	20.6	83	28.3	97	36.1

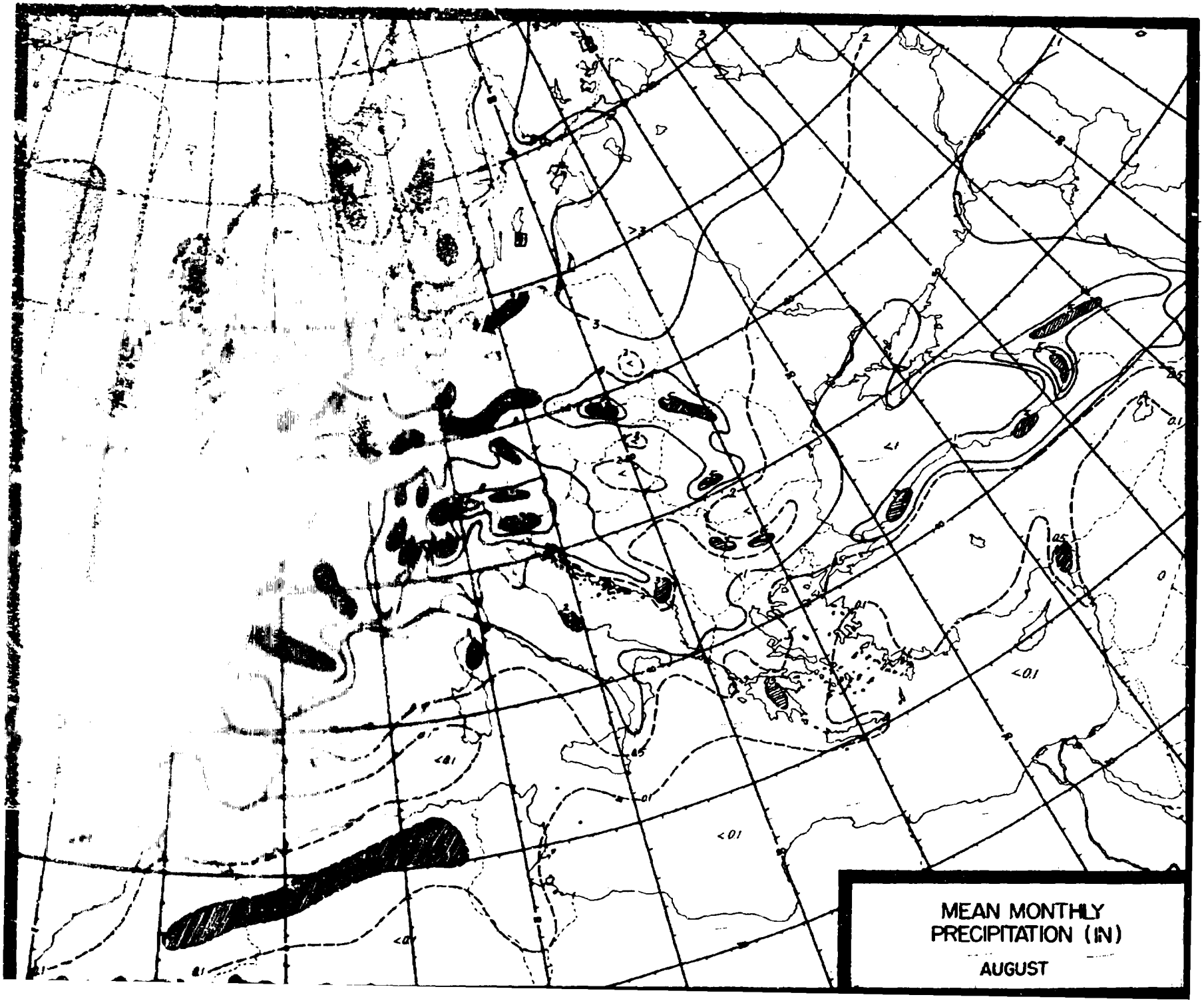

NO SNOWFALL
MEAN NUMBER
OF SNOWFALL DAYS
JULY

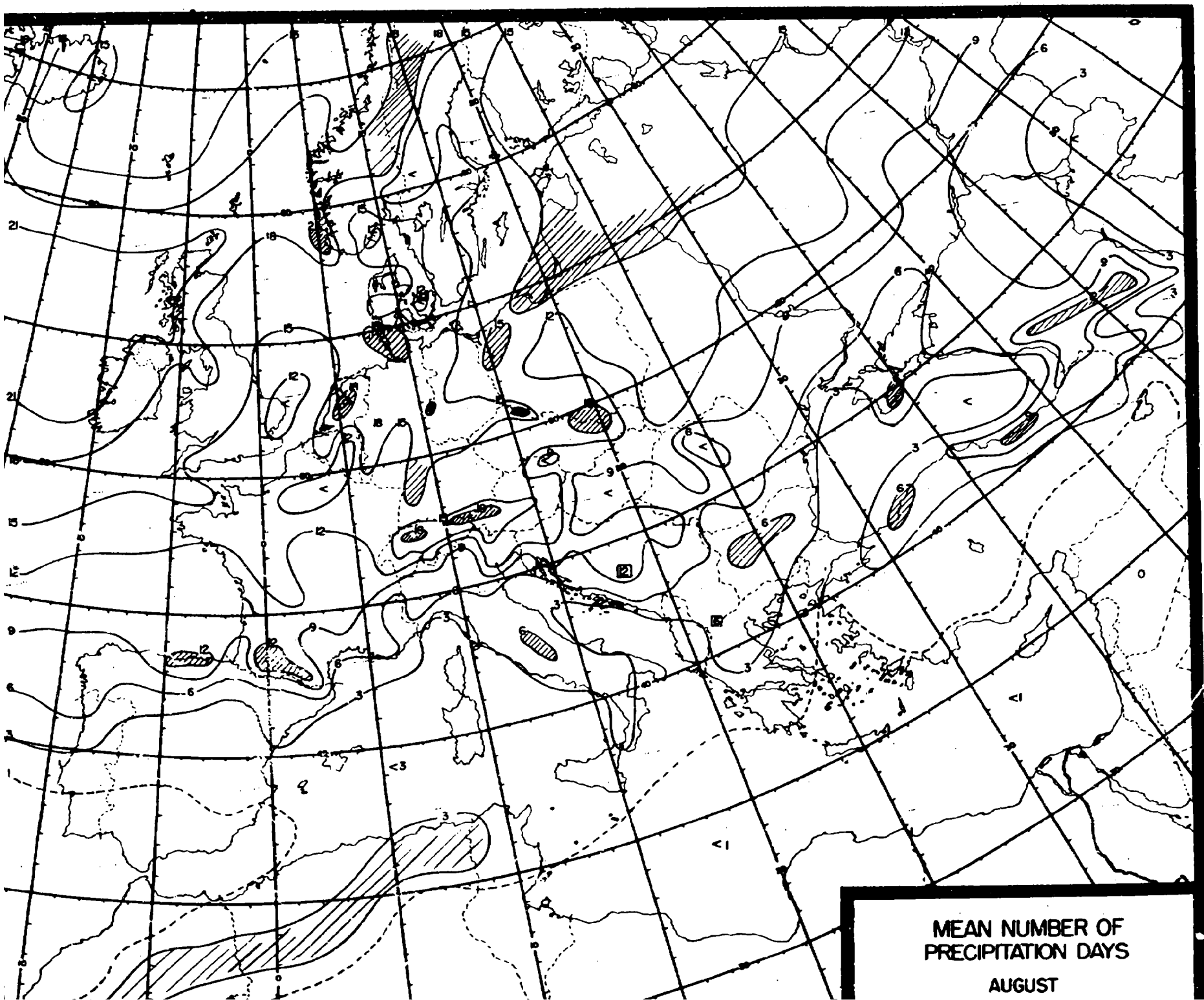

EXTREME MAXIMUM
TEMPERATURE (°F)
AUGUST


MEAN MAXIMUM
TEMPERATURE (°F)
AUGUST


MEAN MINIMUM
TEMPERATURE (°F)
AUGUST

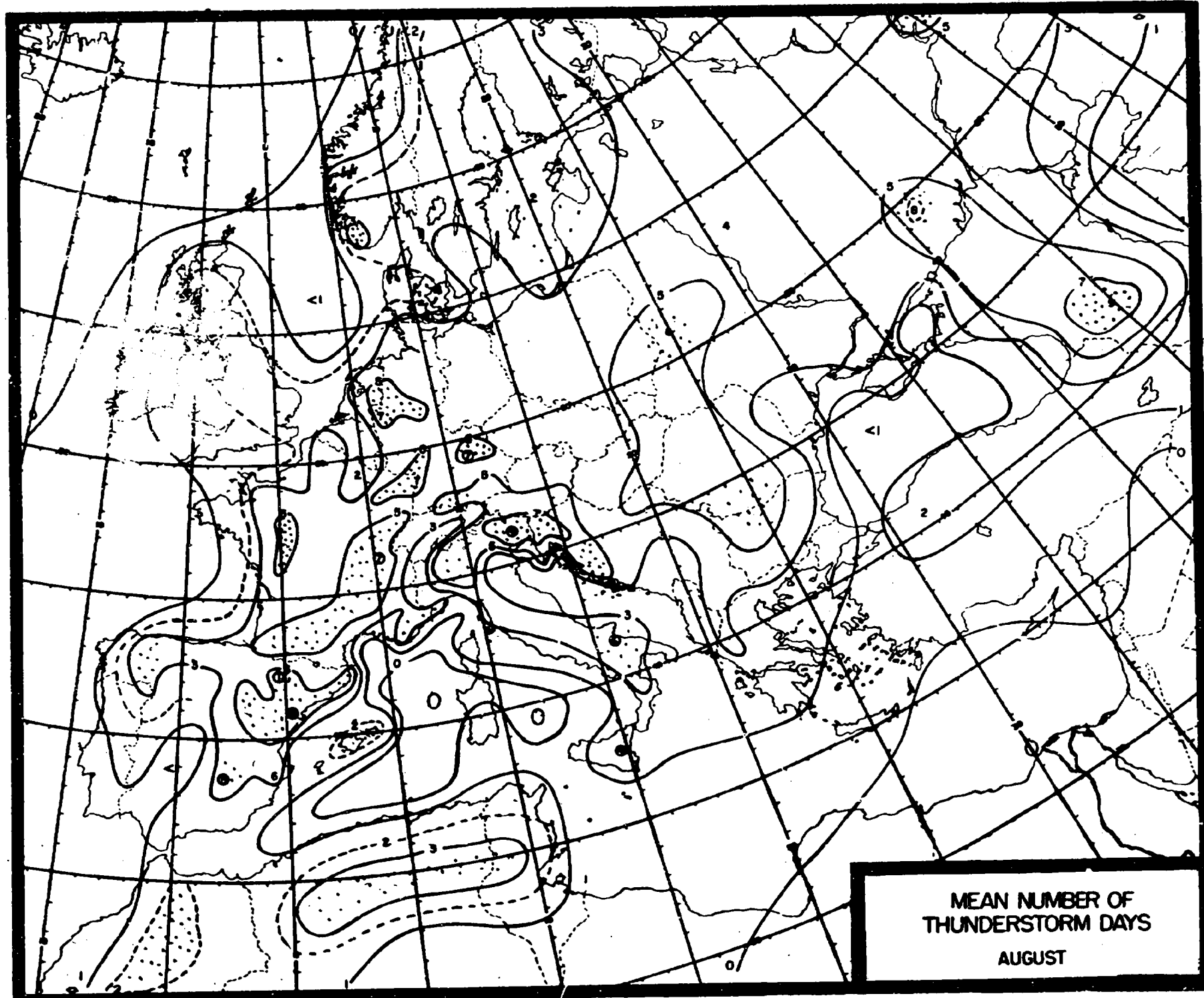

EXTREME MINIMUM
TEMPERATURE (°F)
AUGUST

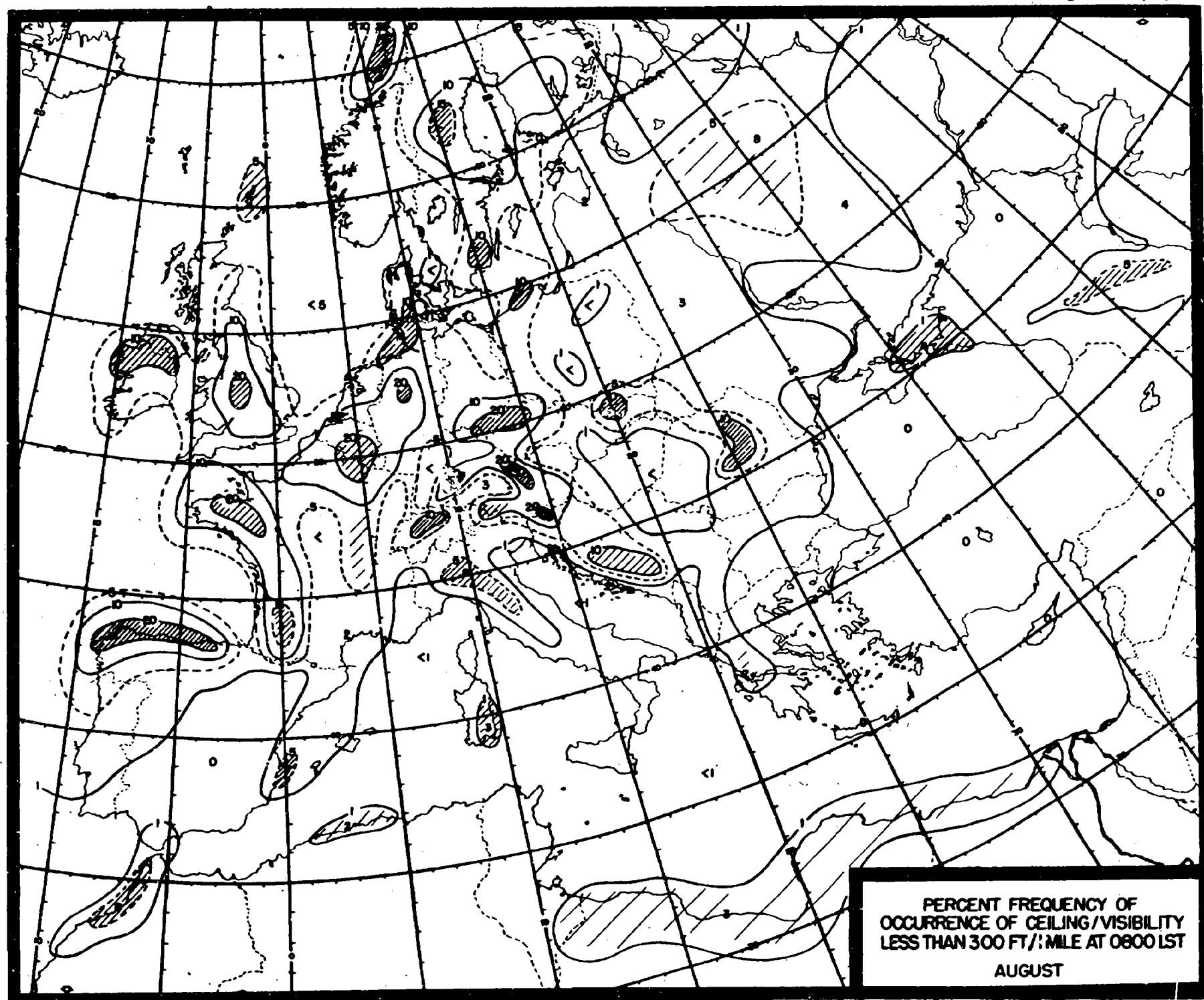

MEAN MONTHLY
PRECIPITATION (IN)
AUGUST

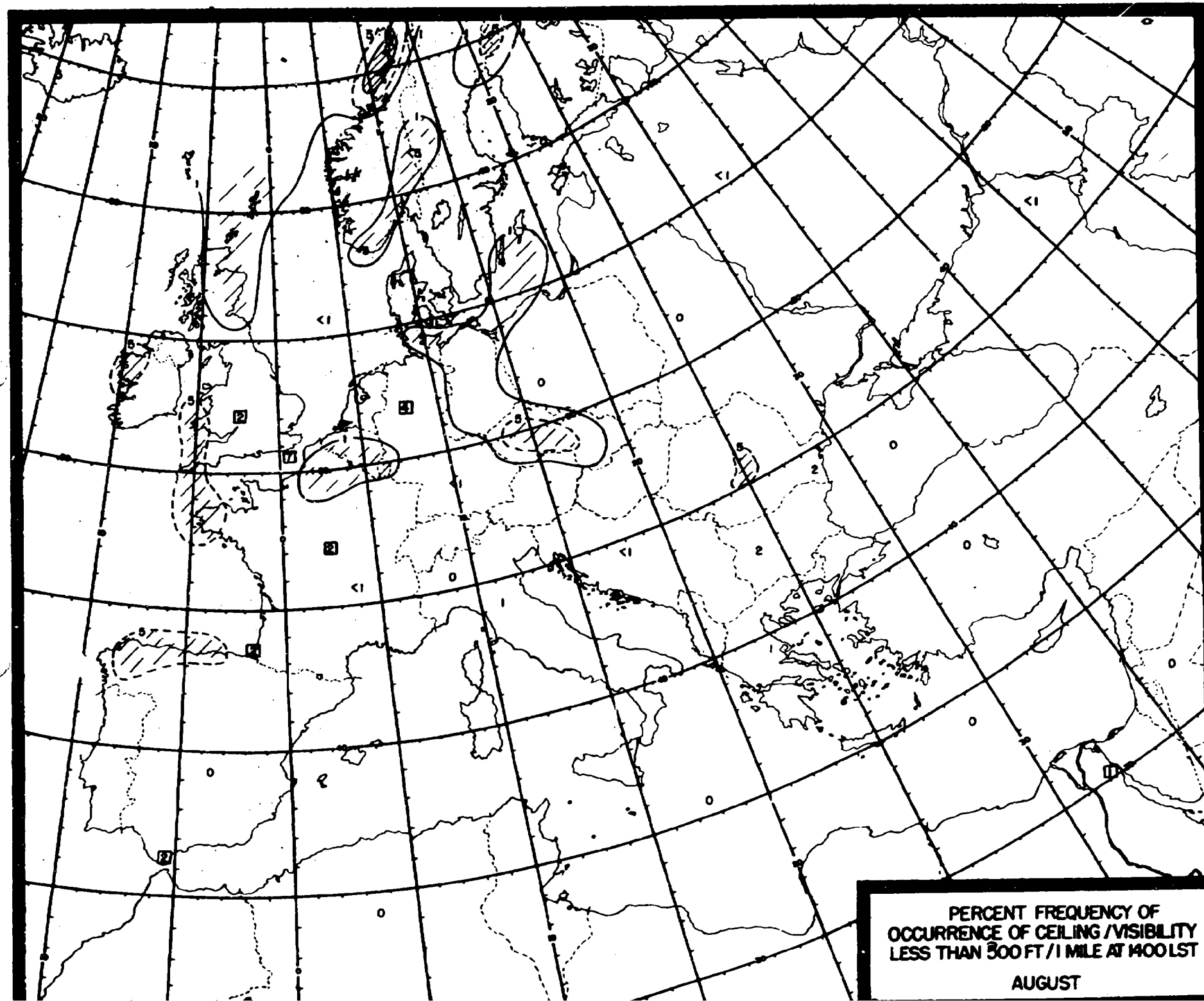


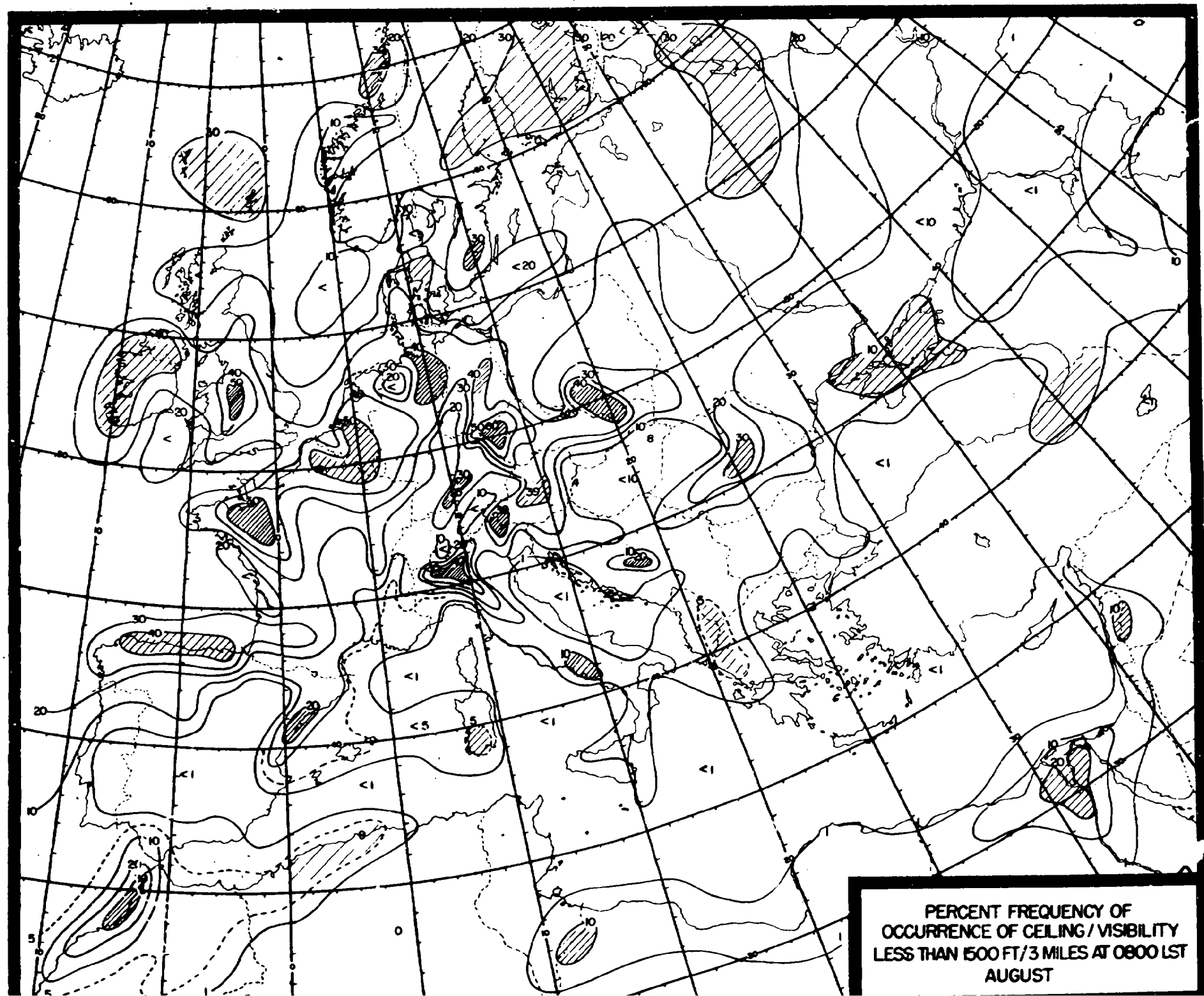
MEAN NUMBER OF
PRECIPITATION DAYS

AUGUST

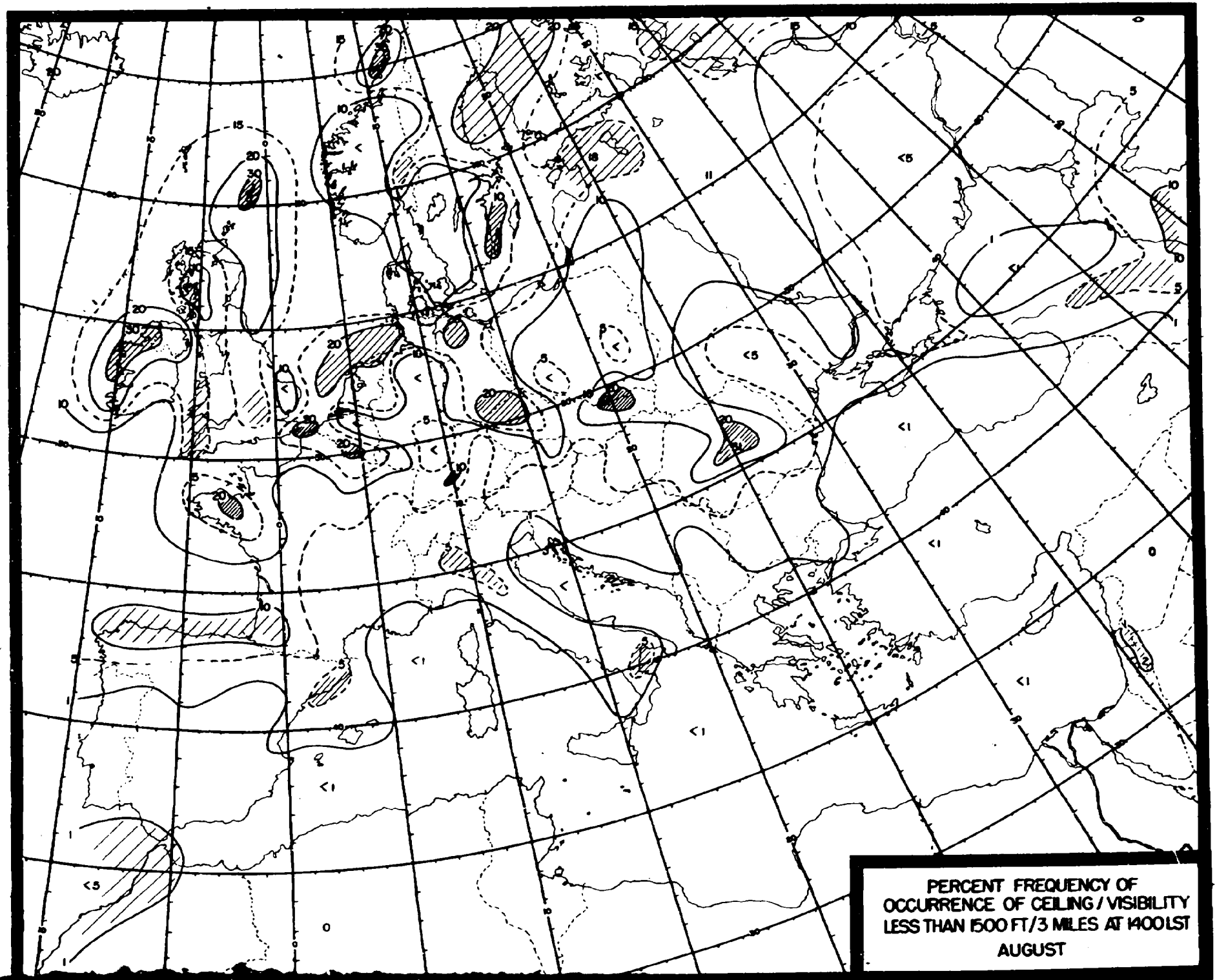

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MEAN NUMBER OF
THUNDERSTORM DAYS
AUGUST

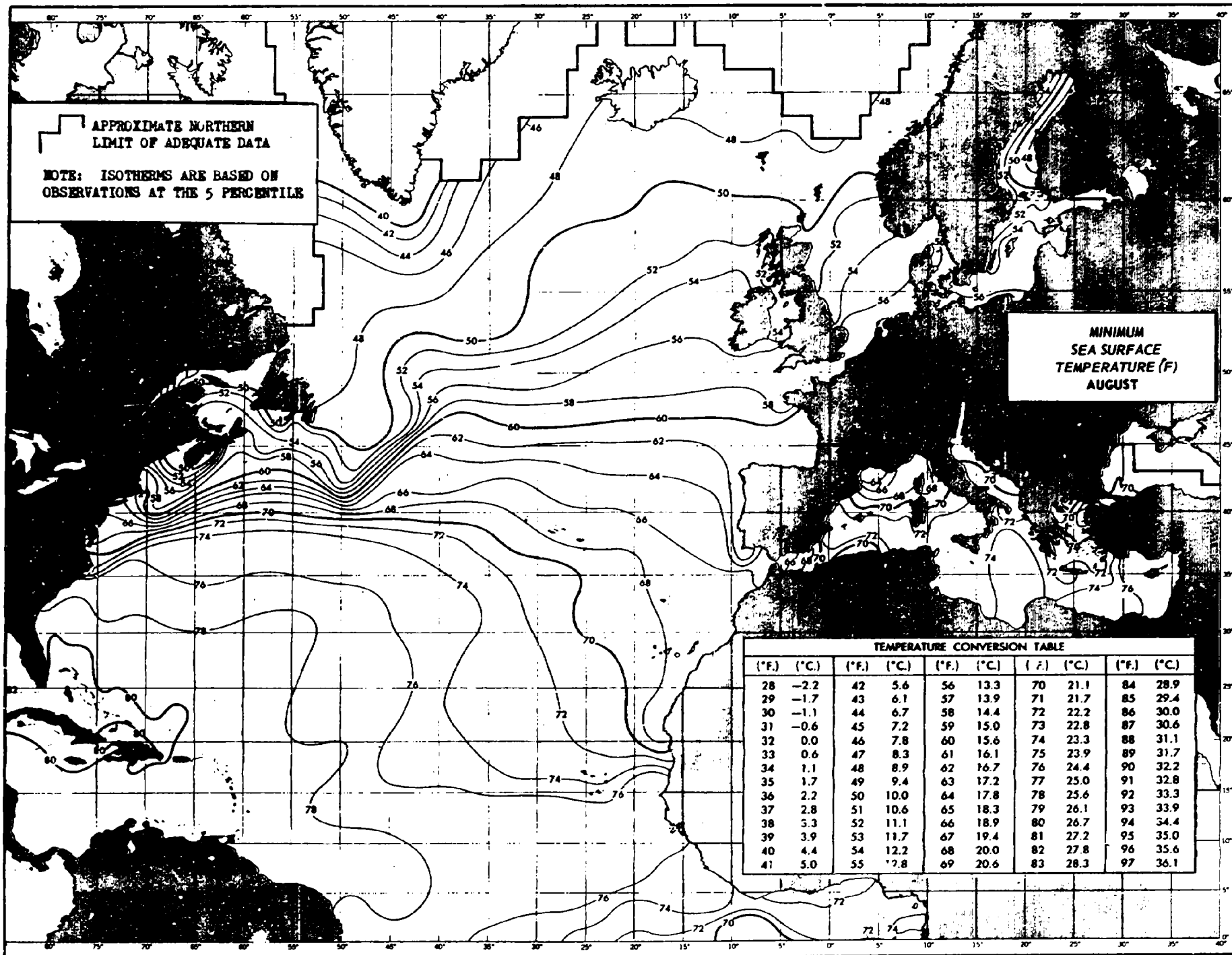

PERCENT FREQUENCY OF
OCCURRENCE OF CEILING/VISIBILITY
LESS THAN 300 FT/½ MILE AT 0800 LST
AUGUST


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING/VISIBILITY
LESS THAN 500 FT/1 MILE AT 1400 LST
AUGUST



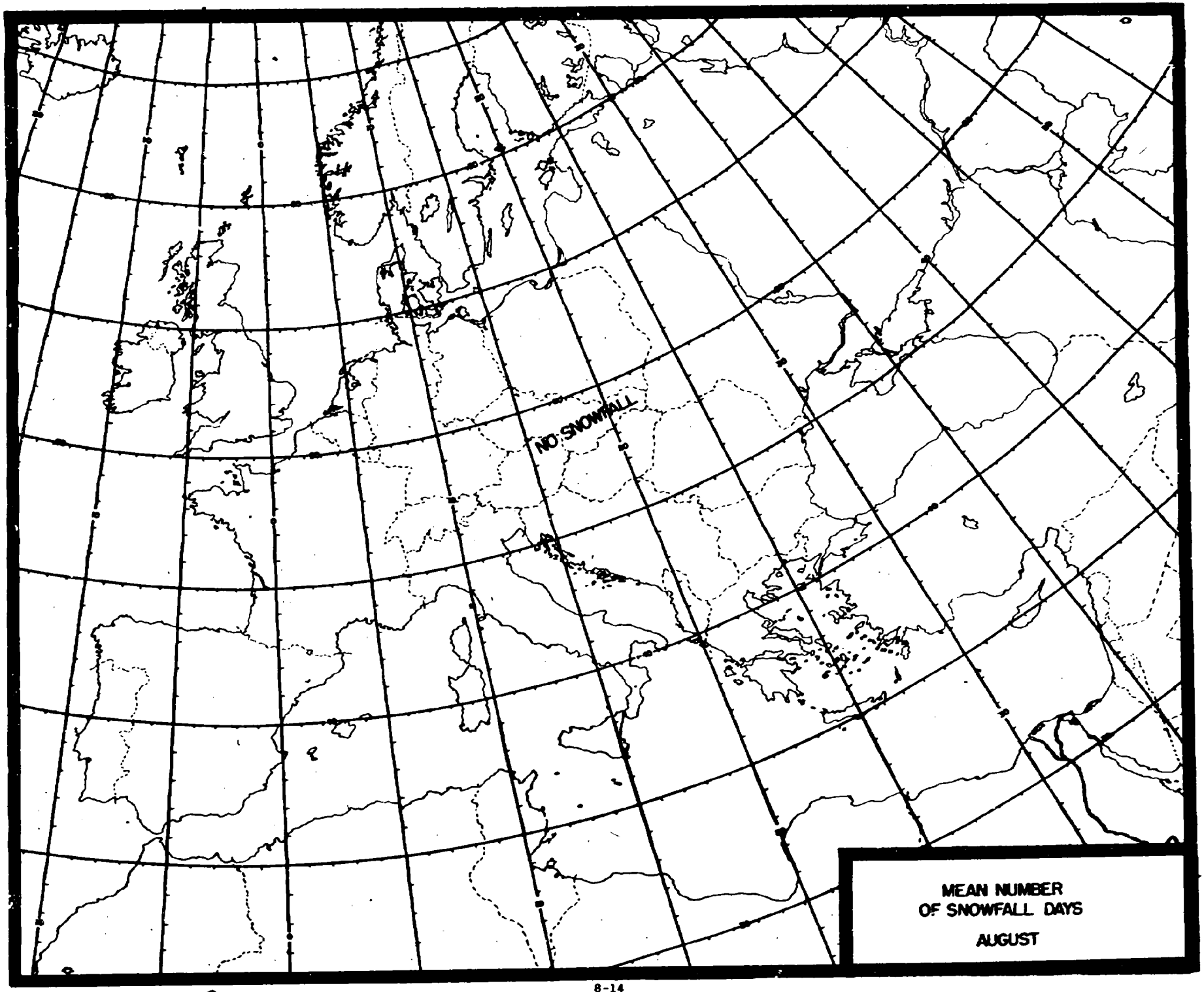
PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 0800 LST
AUGUST

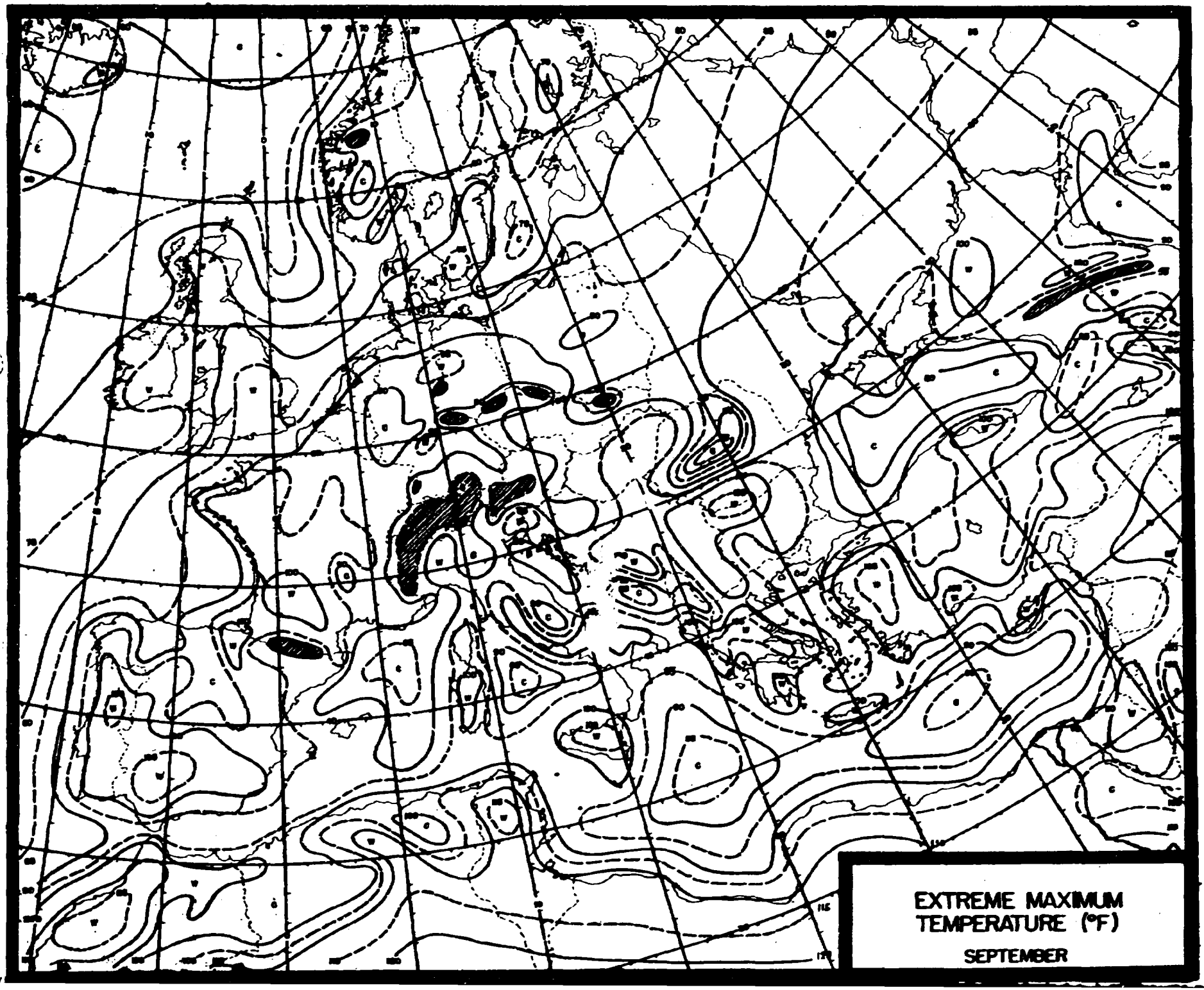

PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 1400 LST
AUGUST

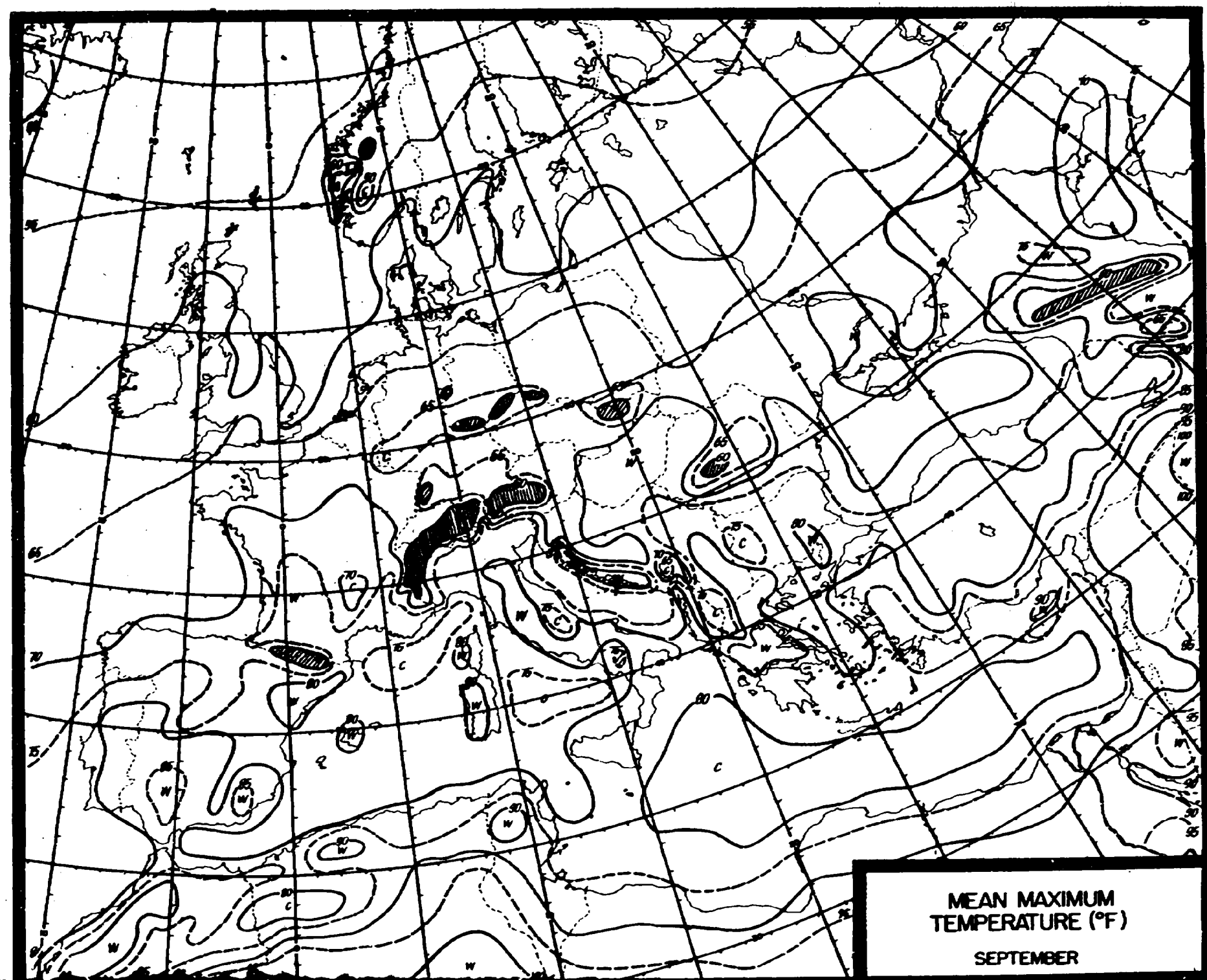


TEMPERATURE CONVERSION TABLE

(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)
28	−2.2	42	5.6	56	13.3	70	21.1	84	28.9
29	−1.7	43	6.1	57	13.9	71	21.7	85	29.4
30	−1.1	44	6.7	58	14.4	72	22.2	86	30.0
31	−0.6	45	7.2	59	15.0	73	22.8	87	30.6
32	0.0	46	7.8	60	15.6	74	23.3	88	31.1
33	0.6	47	8.3	61	16.1	75	23.9	89	31.7
34	1.1	48	8.9	62	16.7	76	24.4	90	32.2
35	1.7	49	9.4	63	17.2	77	25.0	91	32.8
36	2.2	50	10.0	64	17.8	78	25.6	92	33.3
37	2.8	51	10.6	65	18.3	79	26.1	93	33.9
38	3.3	52	11.1	66	18.9	80	26.7	94	34.4
39	3.9	53	11.7	67	19.4	81	27.2	95	35.0
40	4.4	54	12.2	68	20.0	82	27.8	96	35.6
41	5.0	55	12.8	69	20.6	83	28.3	97	36.1

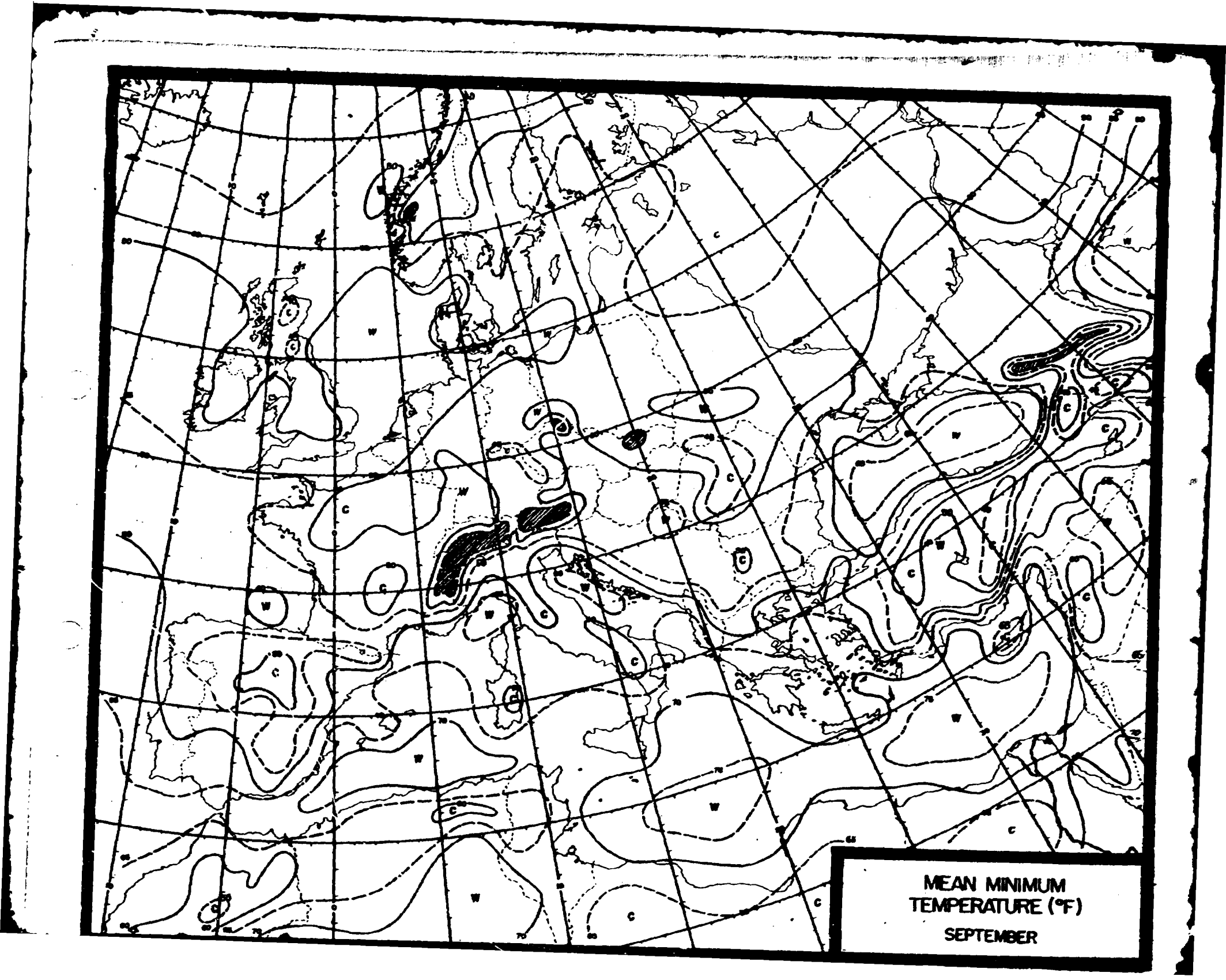

NO SNOWFALL
MEAN NUMBER
OF SNOWFALL DAYS
AUGUST

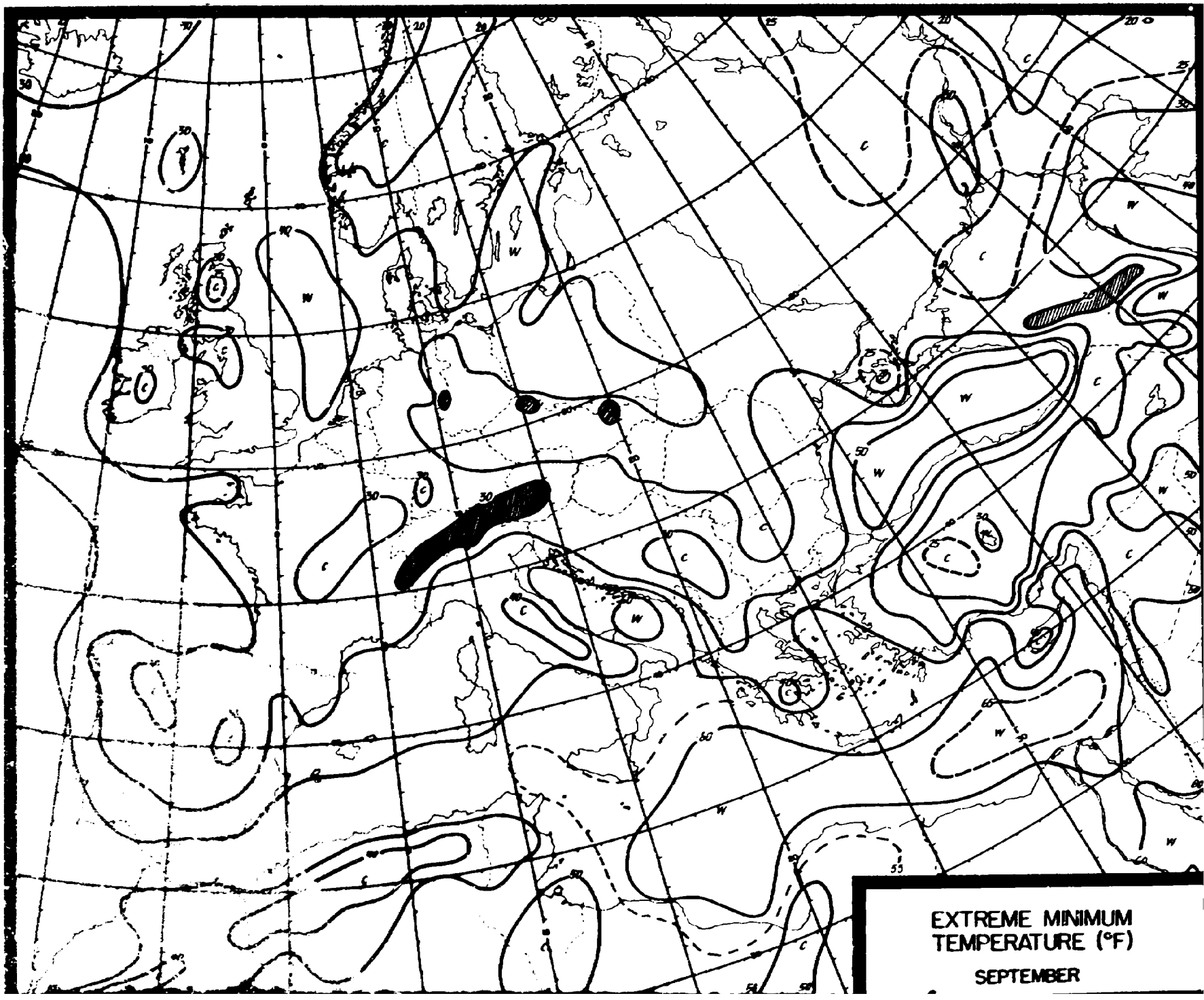

EXTREME MAXIMUM
TEMPERATURE (°F)
SEPTEMBER



MEAN MAXIMUM
TEMPERATURE (°F)

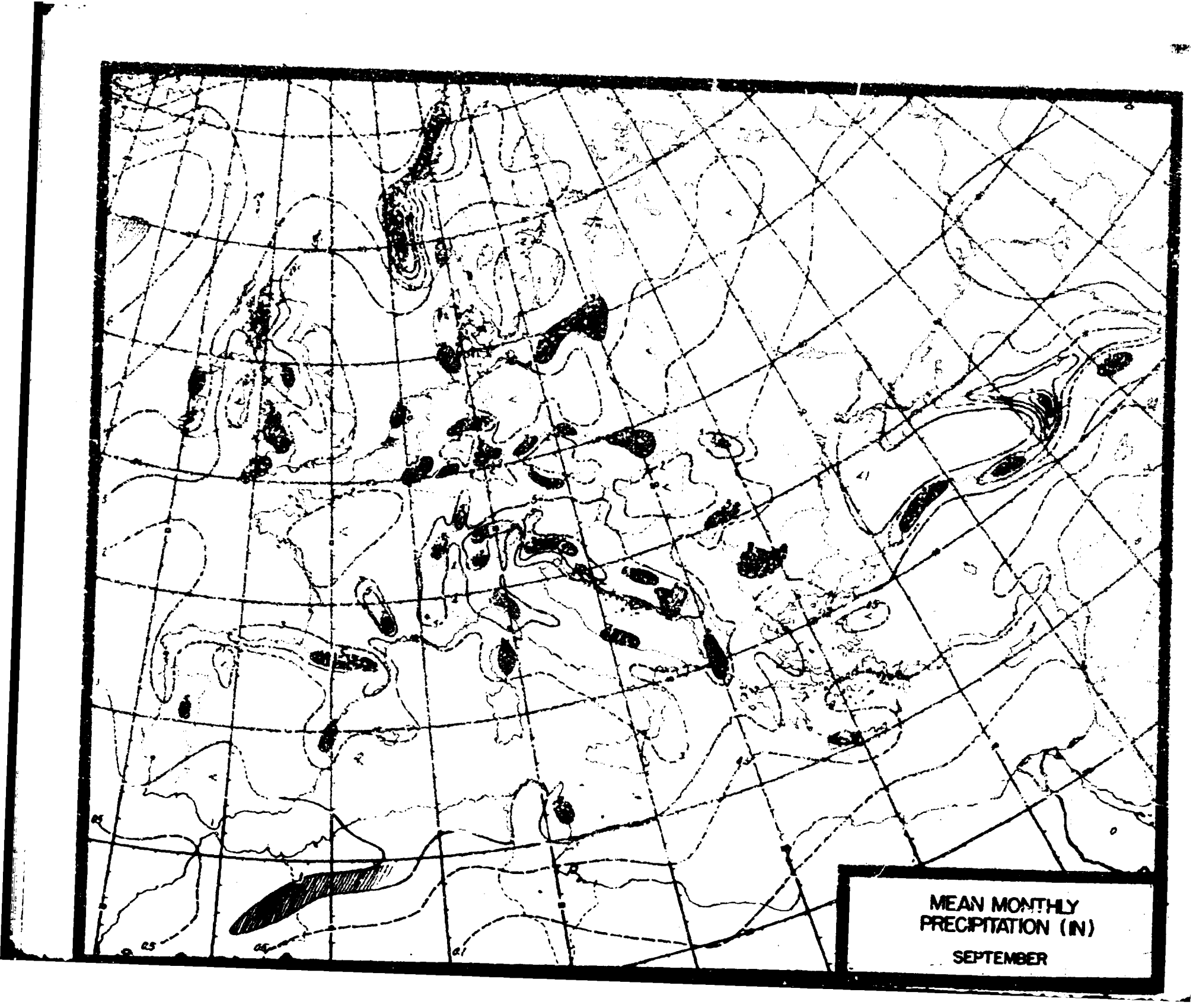
SEPTEMBER

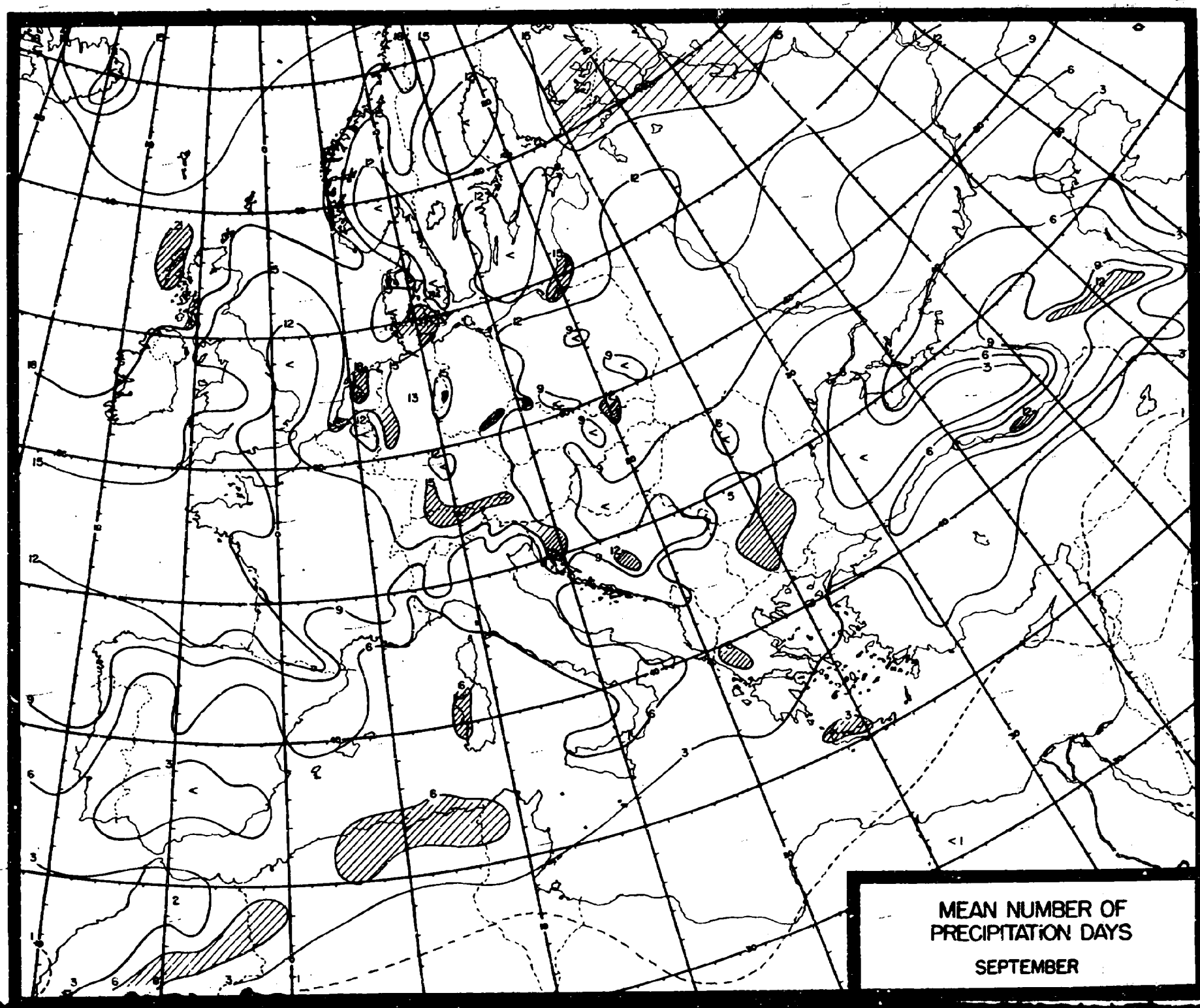

MEAN MINIMUM
TEMPERATURE (°F)
SEPTEMBER

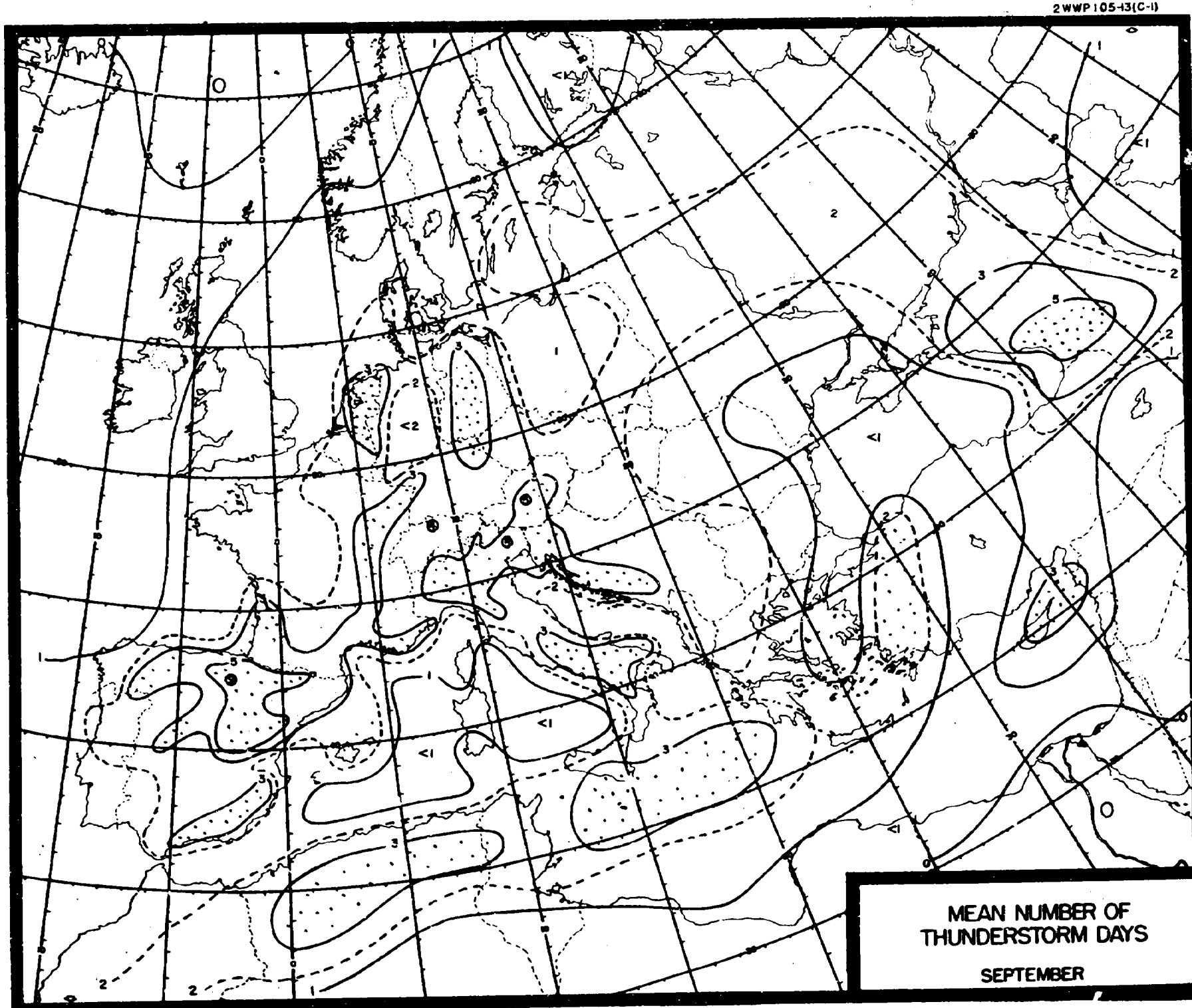


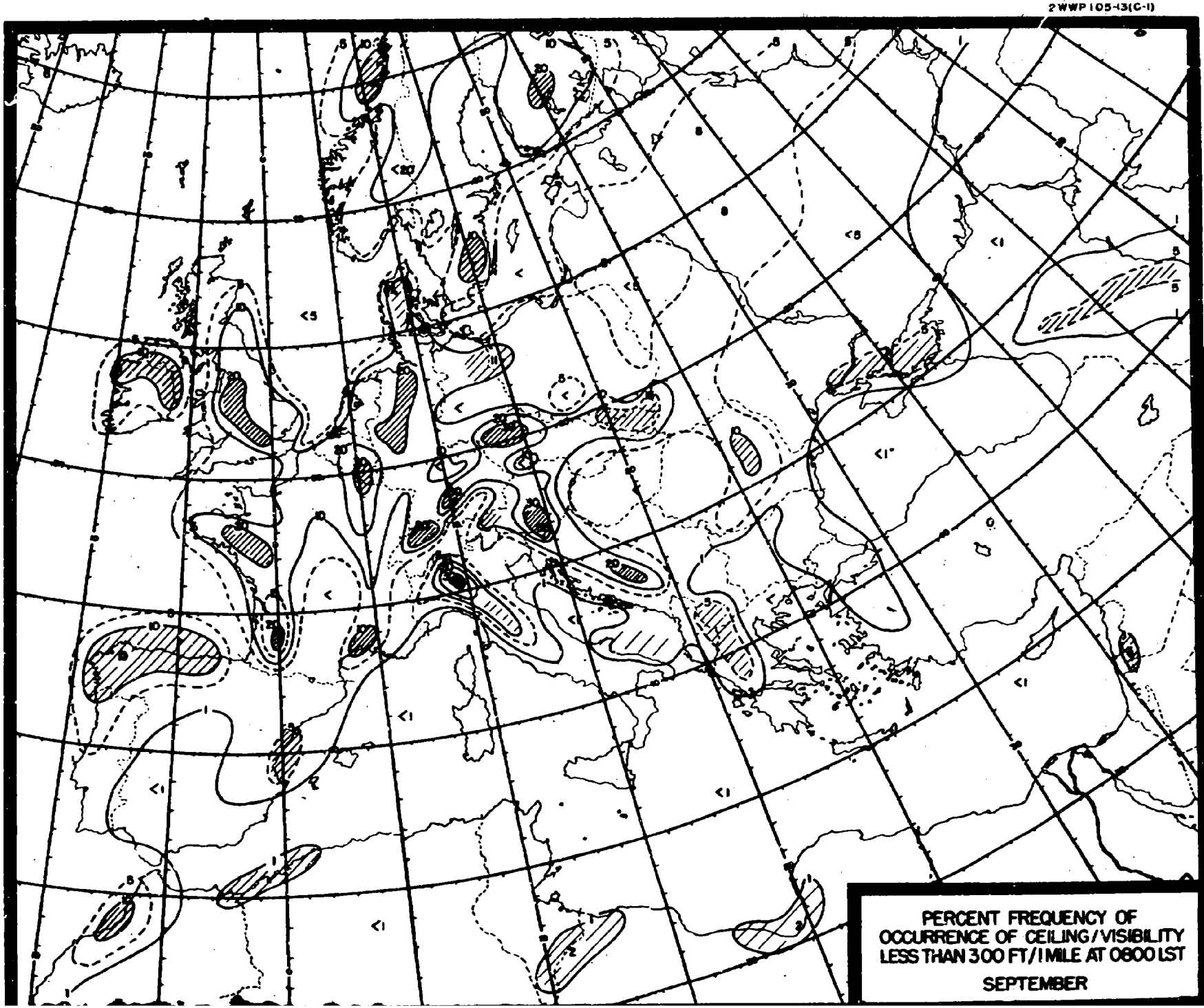
EXTREME MINIMUM
TEMPERATURE (°F)

SEPTEMBER


MEAN MONTHLY
PRECIPITATION (IN)
SEPTEMBER

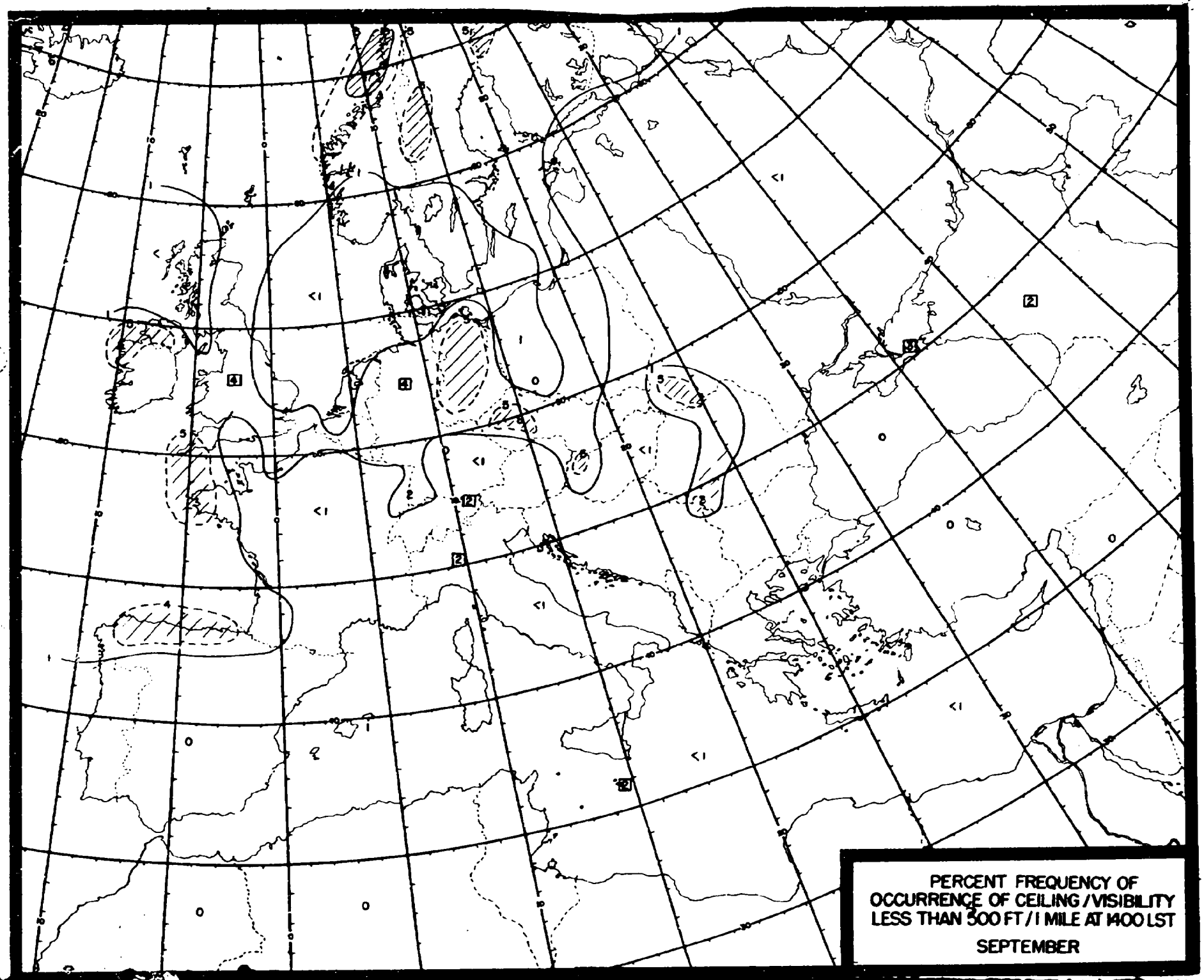

MEAN NUMBER OF
PRECIPITATION DAYS
SEPTEMBER

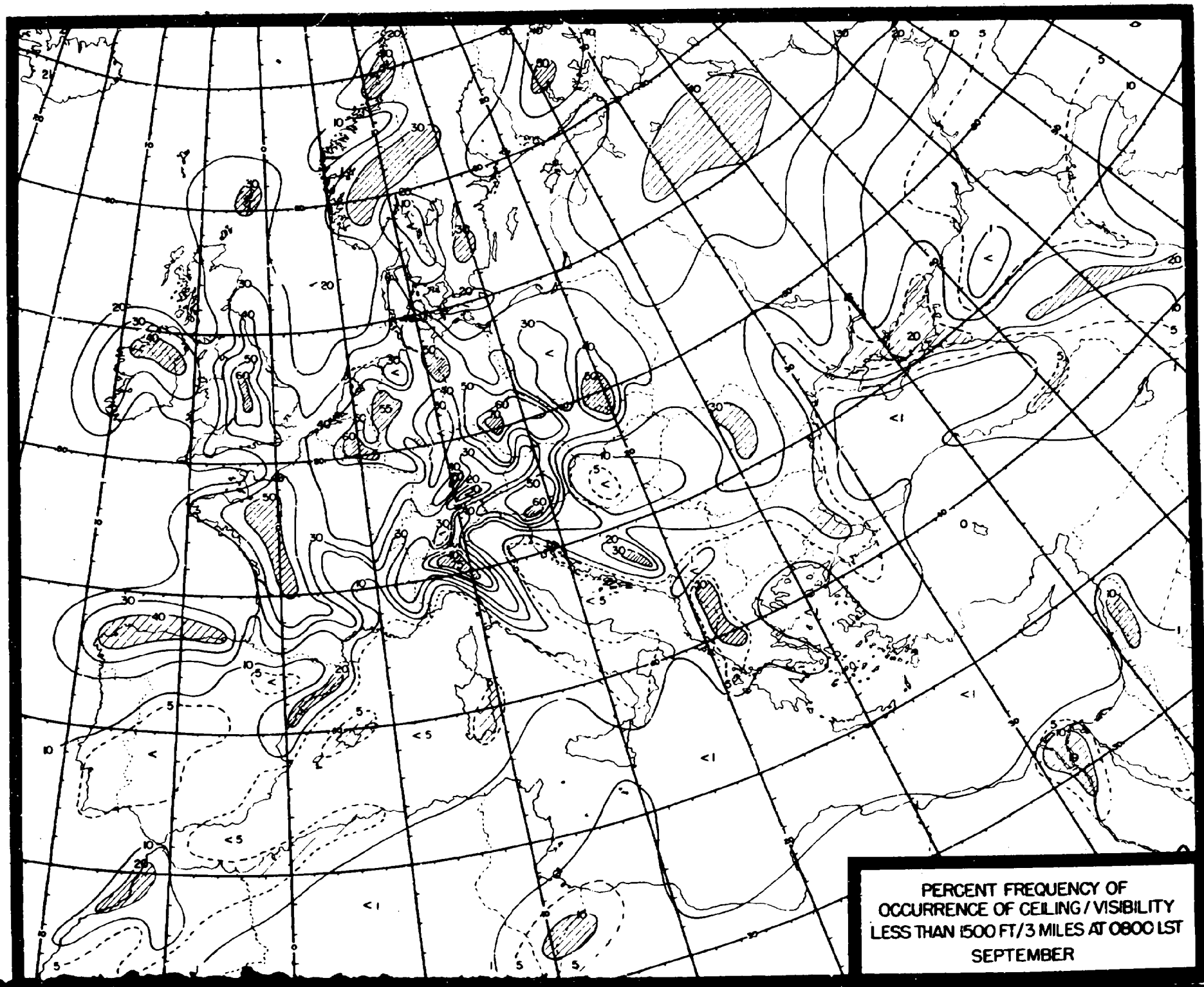

MEAN NUMBER OF
THUNDERSTORM DAYS
SEPTEMBER

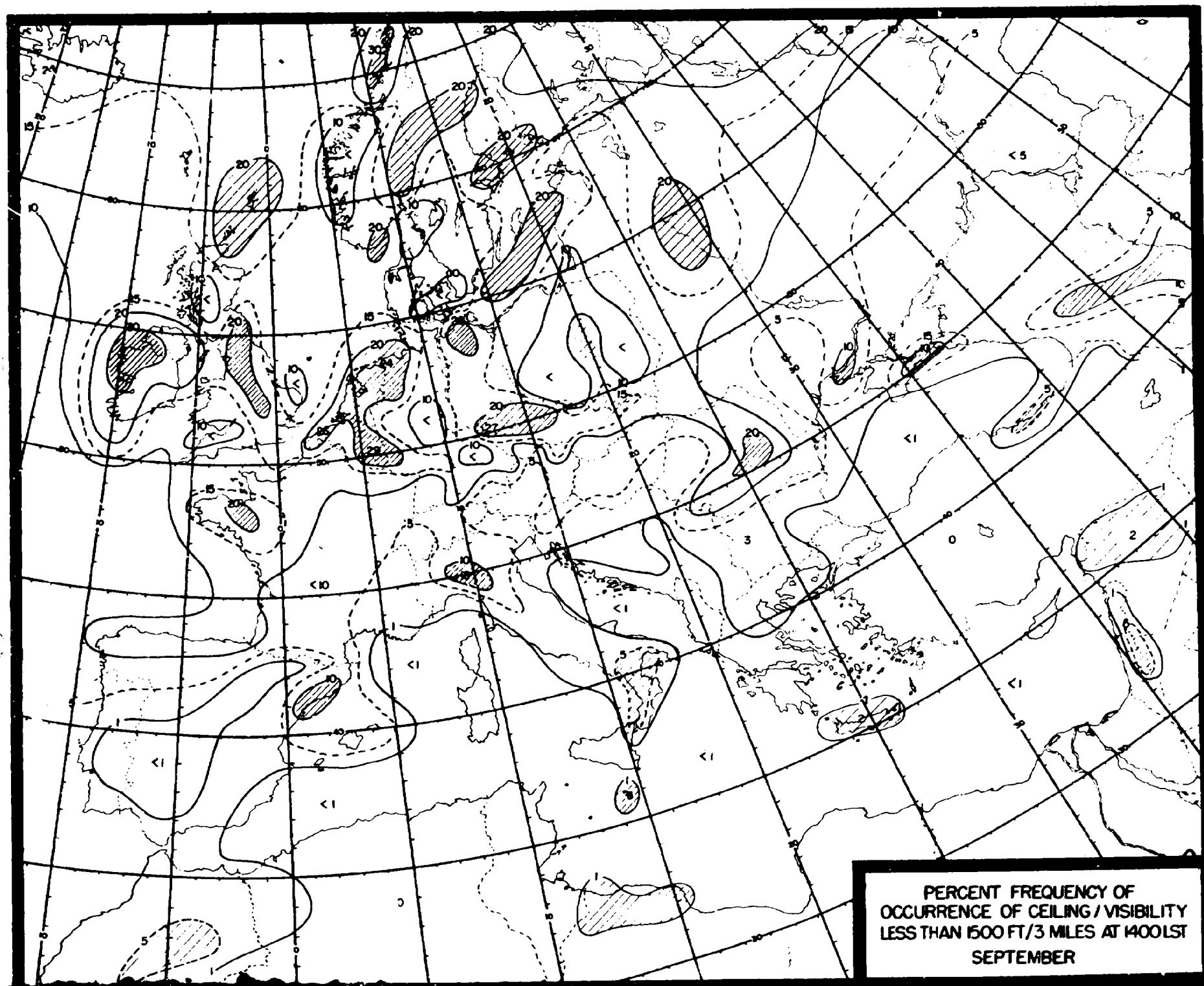


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING/VISIBILITY
LESS THAN 300 FT/1 MILE AT 0600 LST

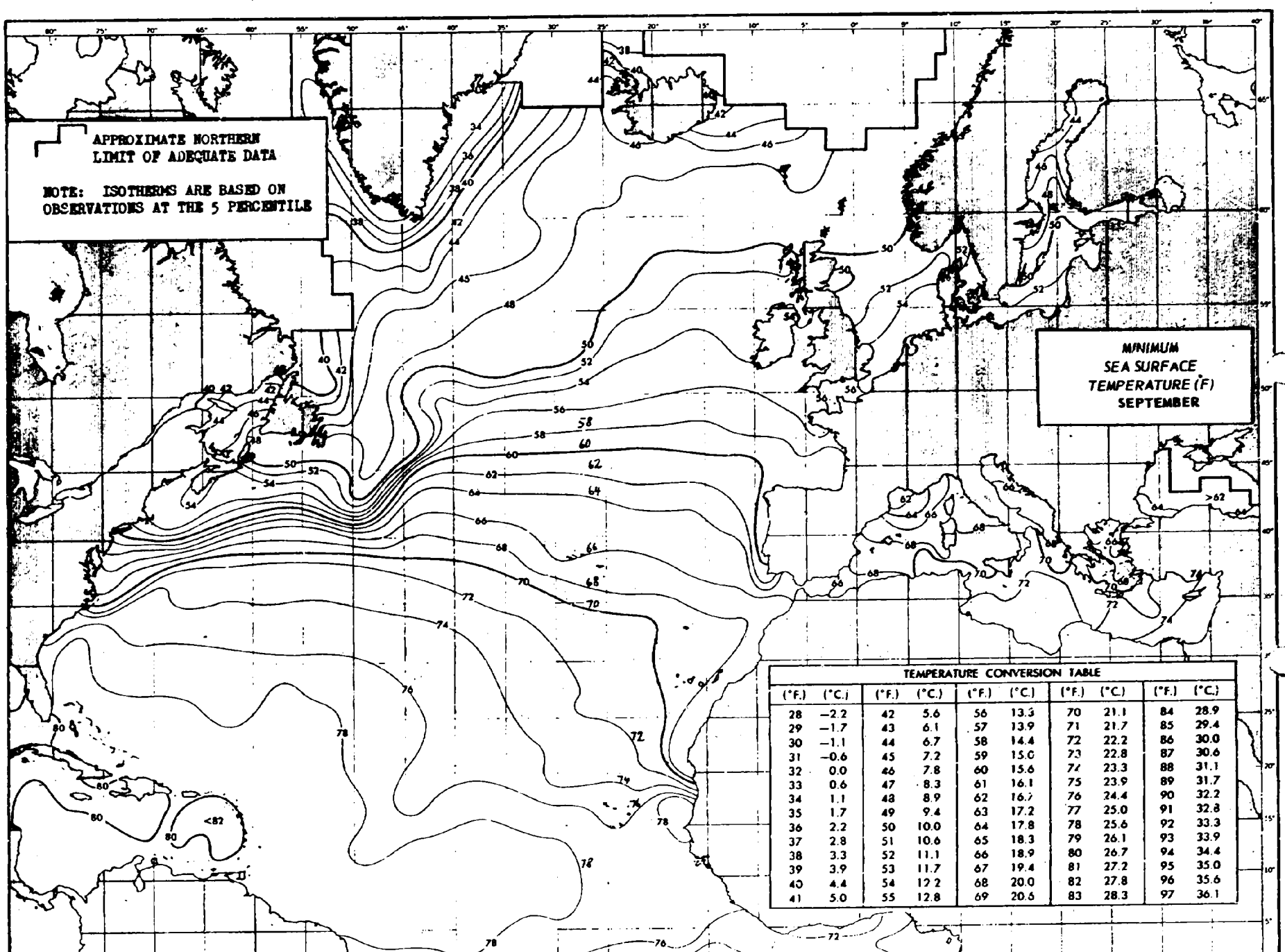
SEPTEMBER


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 500 FT / 1 MILE AT 1400 LST
SEPTEMBER


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 0800 LST
SEPTEMBER

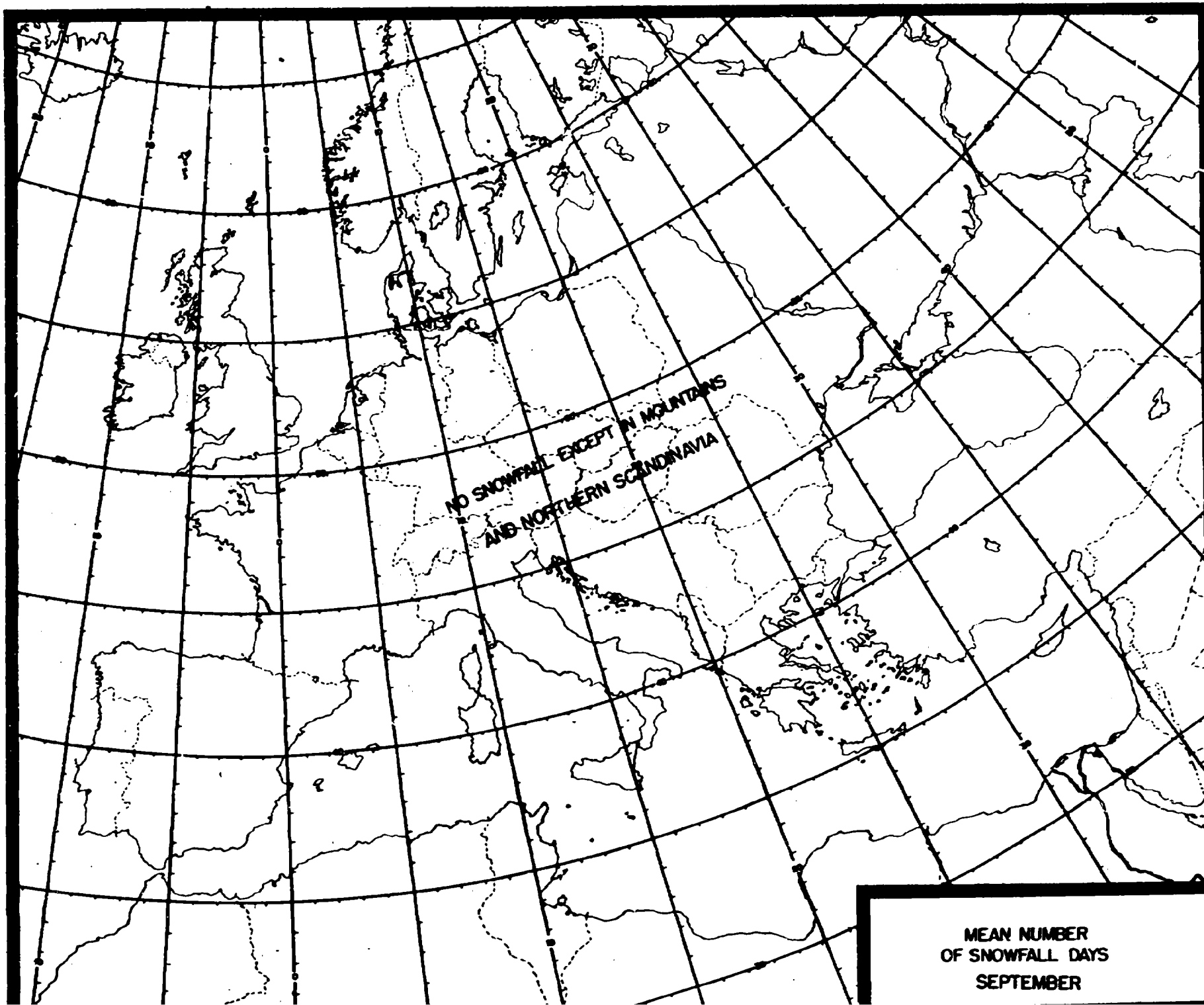


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 1400 LST
SEPTEMBER

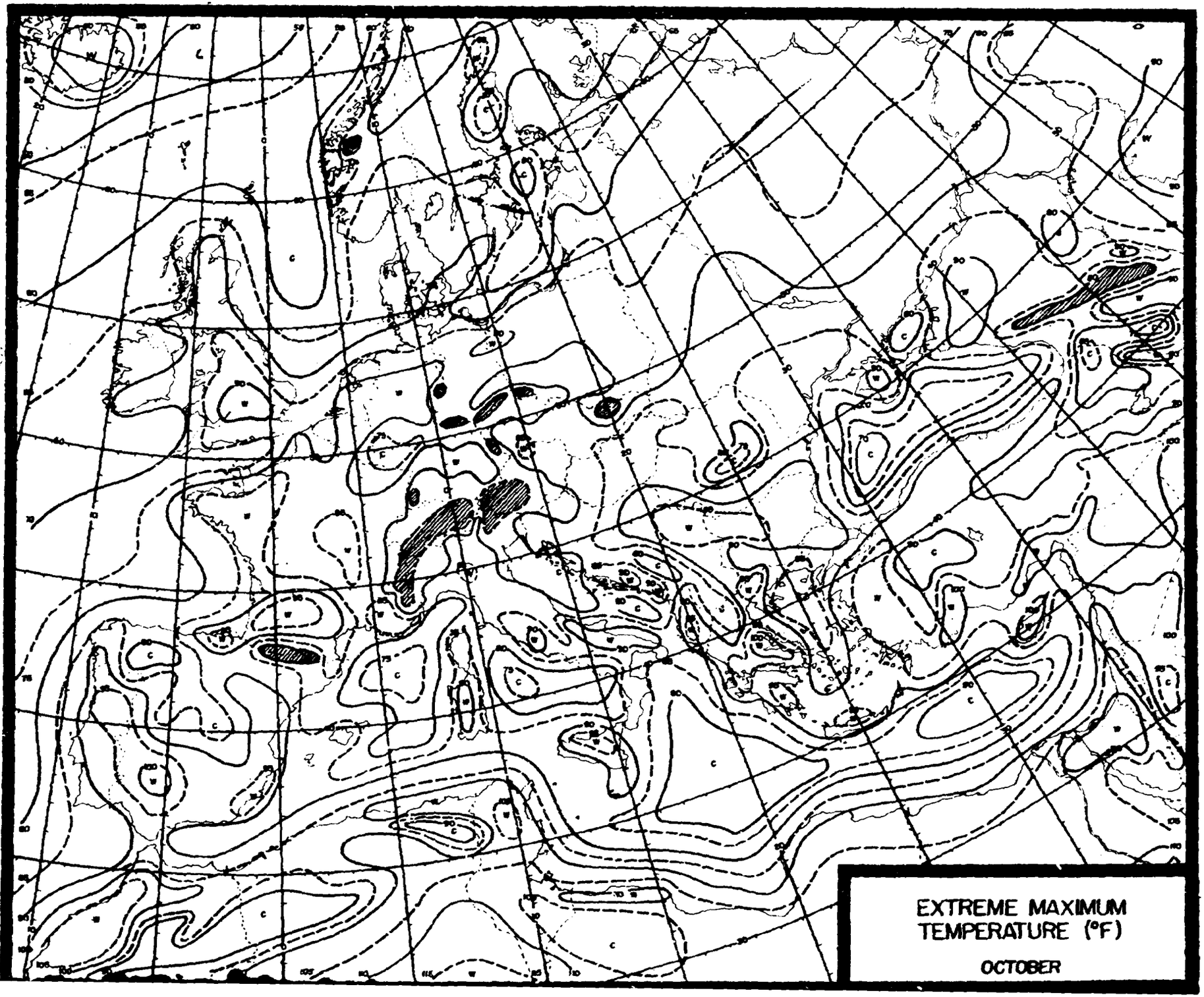


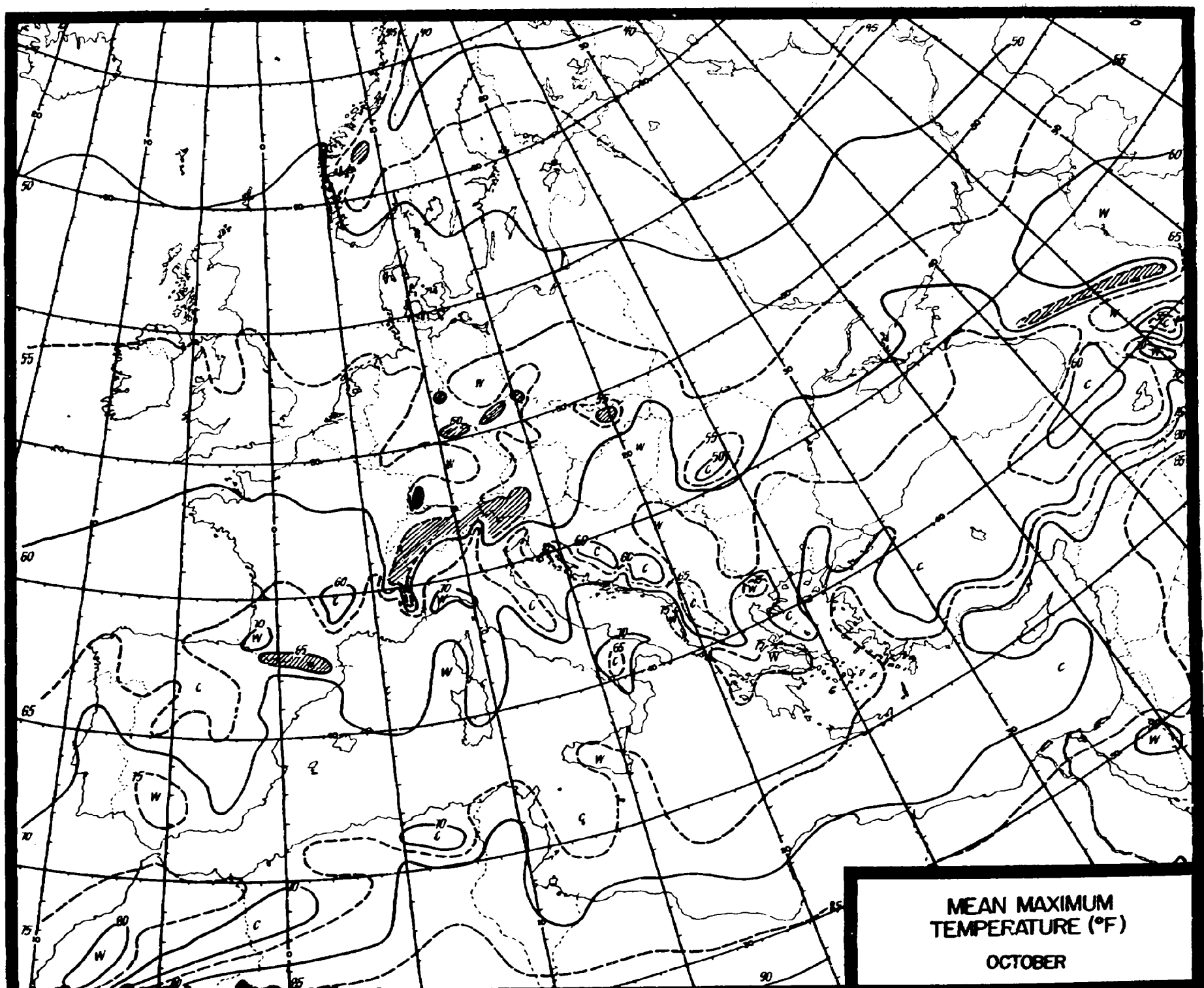
TEMPERATURE CONVERSION TABLE

(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)
28	−2.2	42	5.6	56	13.3	70	21.1	84	28.9
29	−1.7	43	6.1	57	13.9	71	21.7	85	29.4
30	−1.1	44	6.7	58	14.4	72	22.2	86	30.0
31	−0.6	45	7.2	59	15.0	73	22.8	87	30.6
32	0.0	46	7.8	60	15.6	74	23.3	88	31.1
33	0.6	47	8.3	61	16.1	75	23.9	89	31.7
34	1.1	48	8.9	62	16.7	76	24.4	90	32.2
35	1.7	49	9.4	63	17.2	77	25.0	91	32.8
36	2.2	50	10.0	64	17.8	78	25.6	92	33.3
37	2.8	51	10.6	65	18.3	79	26.1	93	33.9
38	3.3	52	11.1	66	18.9	80	26.7	94	34.4
39	3.9	53	11.7	67	19.4	81	27.2	95	35.0
40	4.4	54	12.2	68	20.0	82	27.8	96	35.6
41	5.0	55	12.8	69	20.6	83	28.3	97	36.1



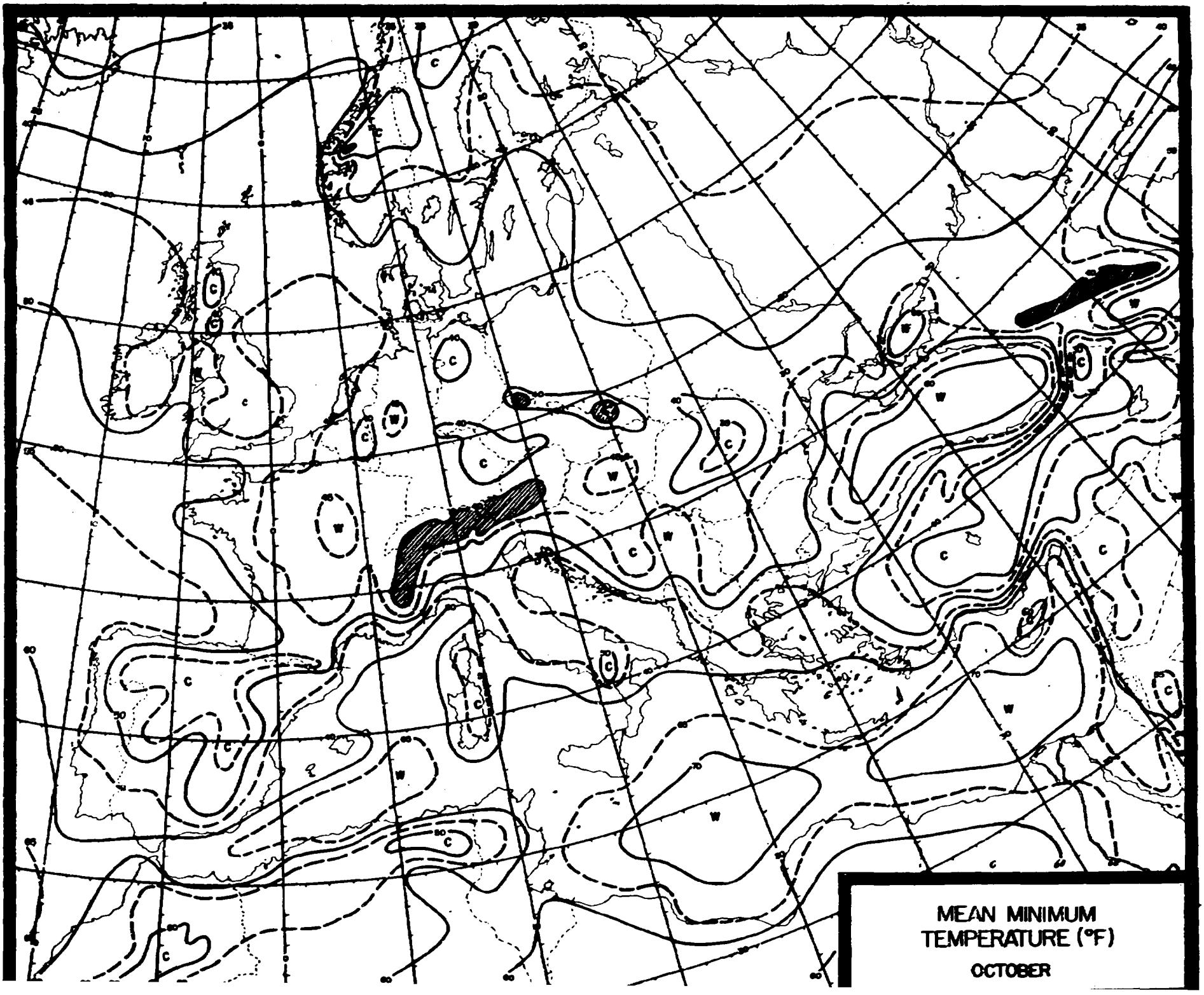
MEAN NUMBER
OF SNOWFALL DAYS
SEPTEMBER


EXTREME MAXIMUM
TEMPERATURE (°F)
OCTOBER



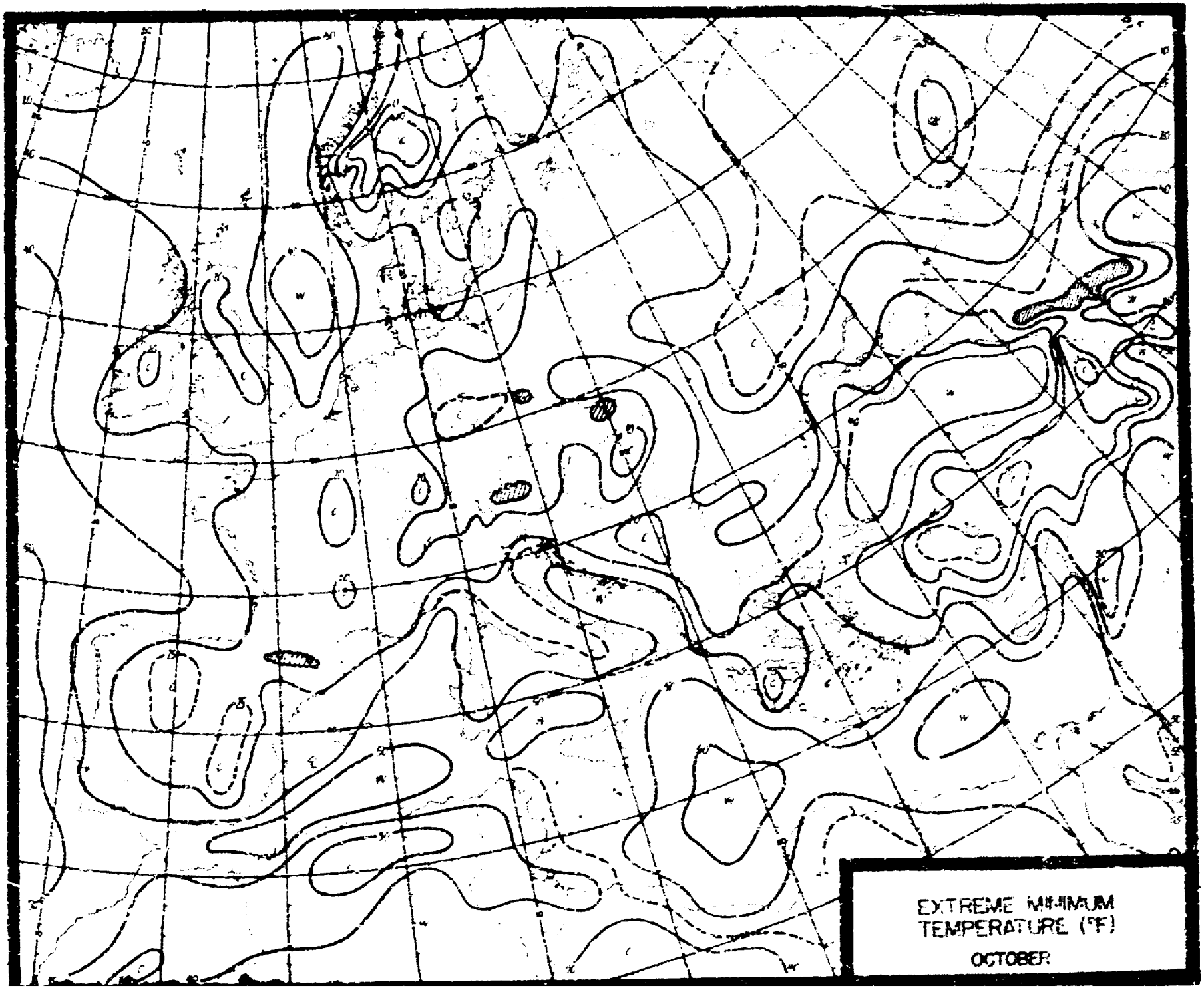
MEAN MAXIMUM
TEMPERATURE (°F)

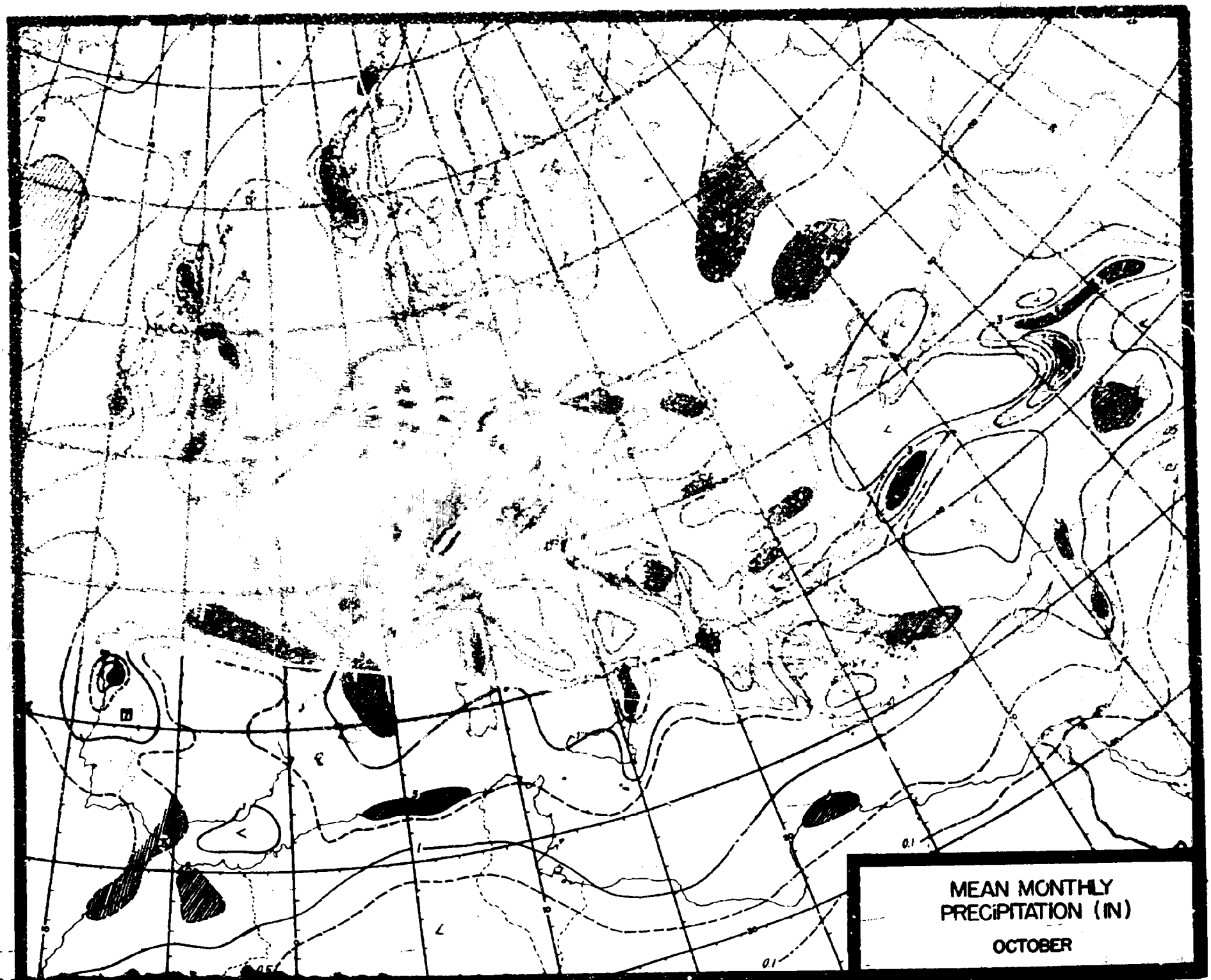
OCTOBER

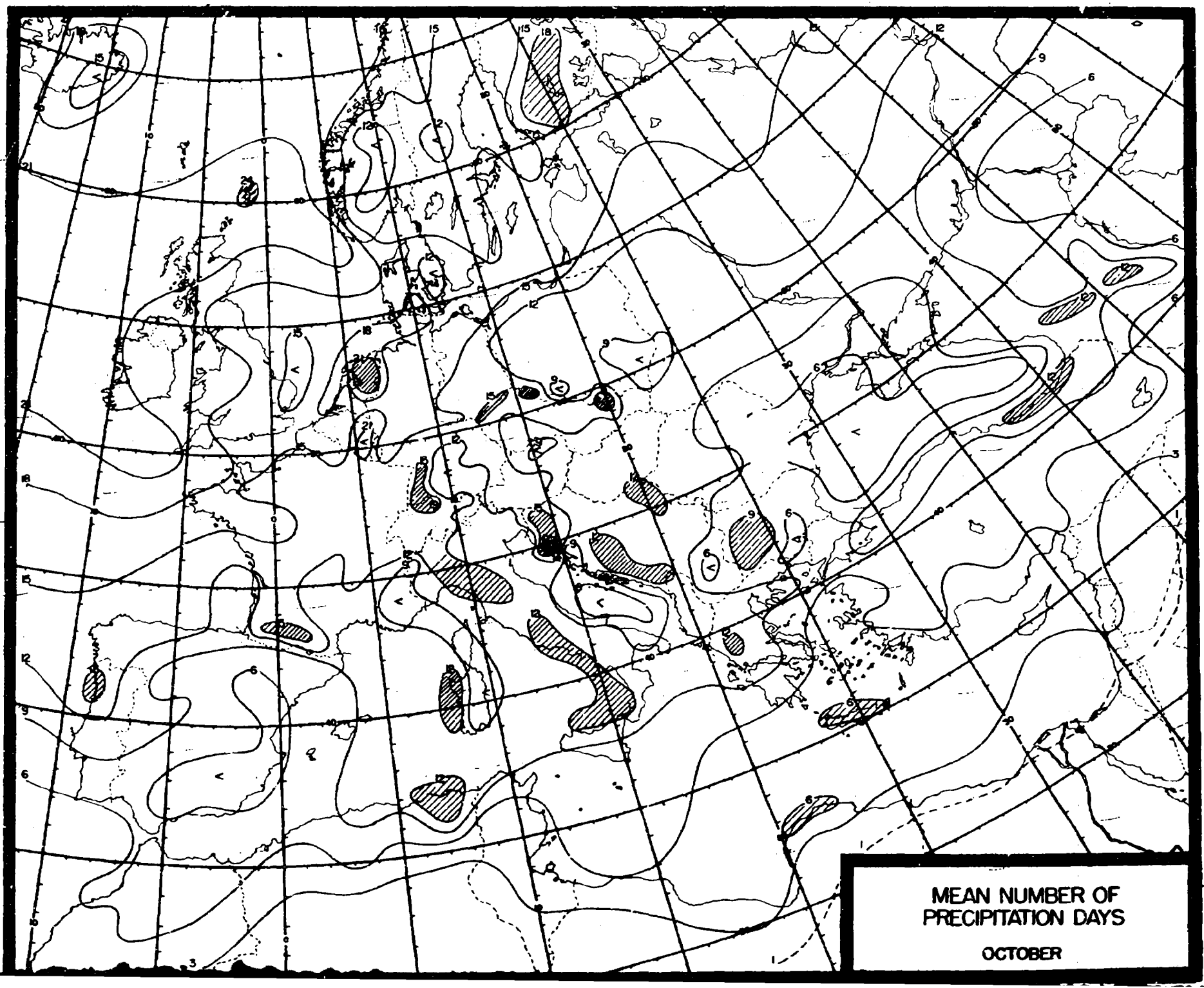


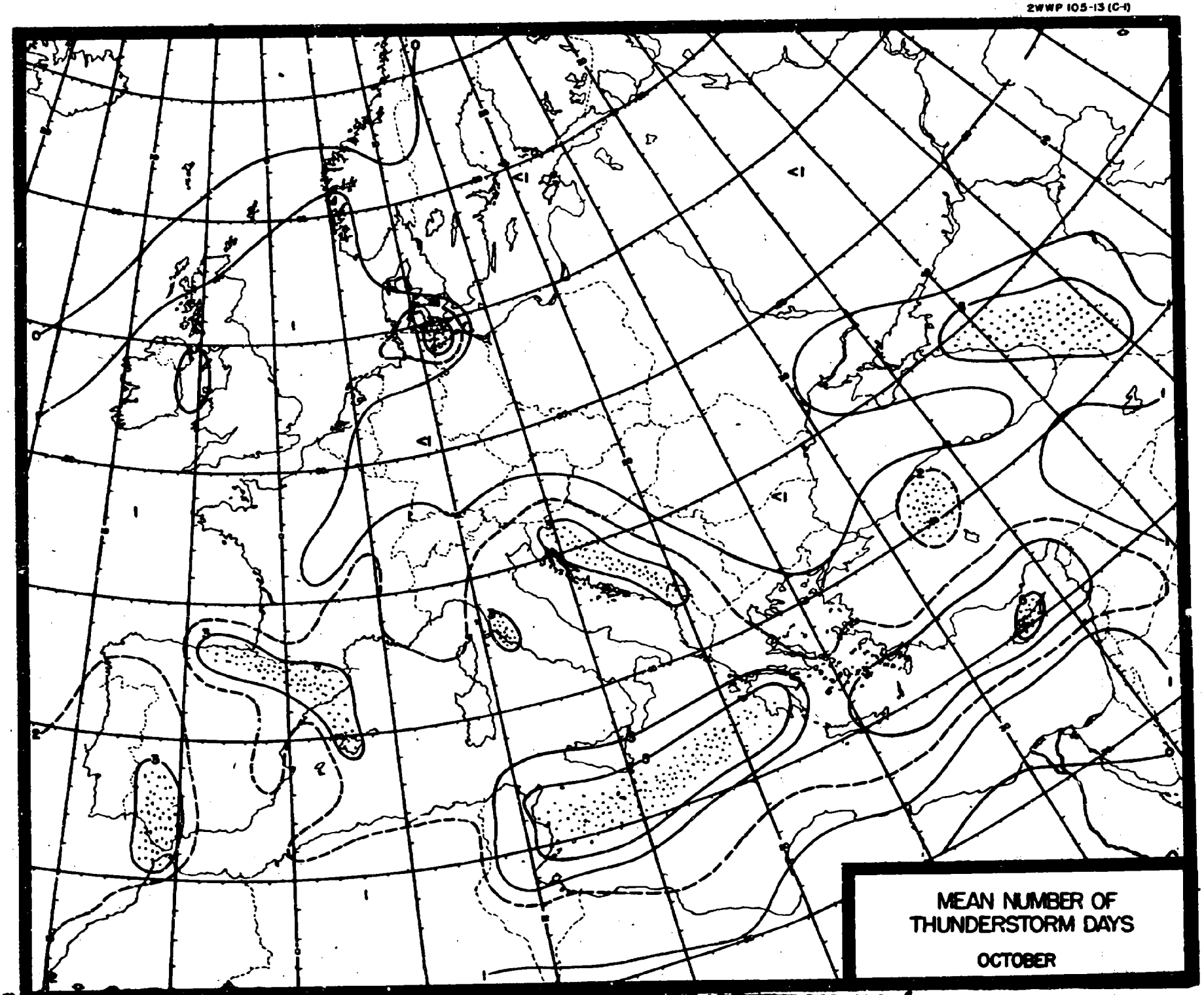
MEAN MINIMUM
TEMPERATURE (°F)

OCTOBER


EXTREME MINIMUM
TEMPERATURE (°F)
OCTOBER

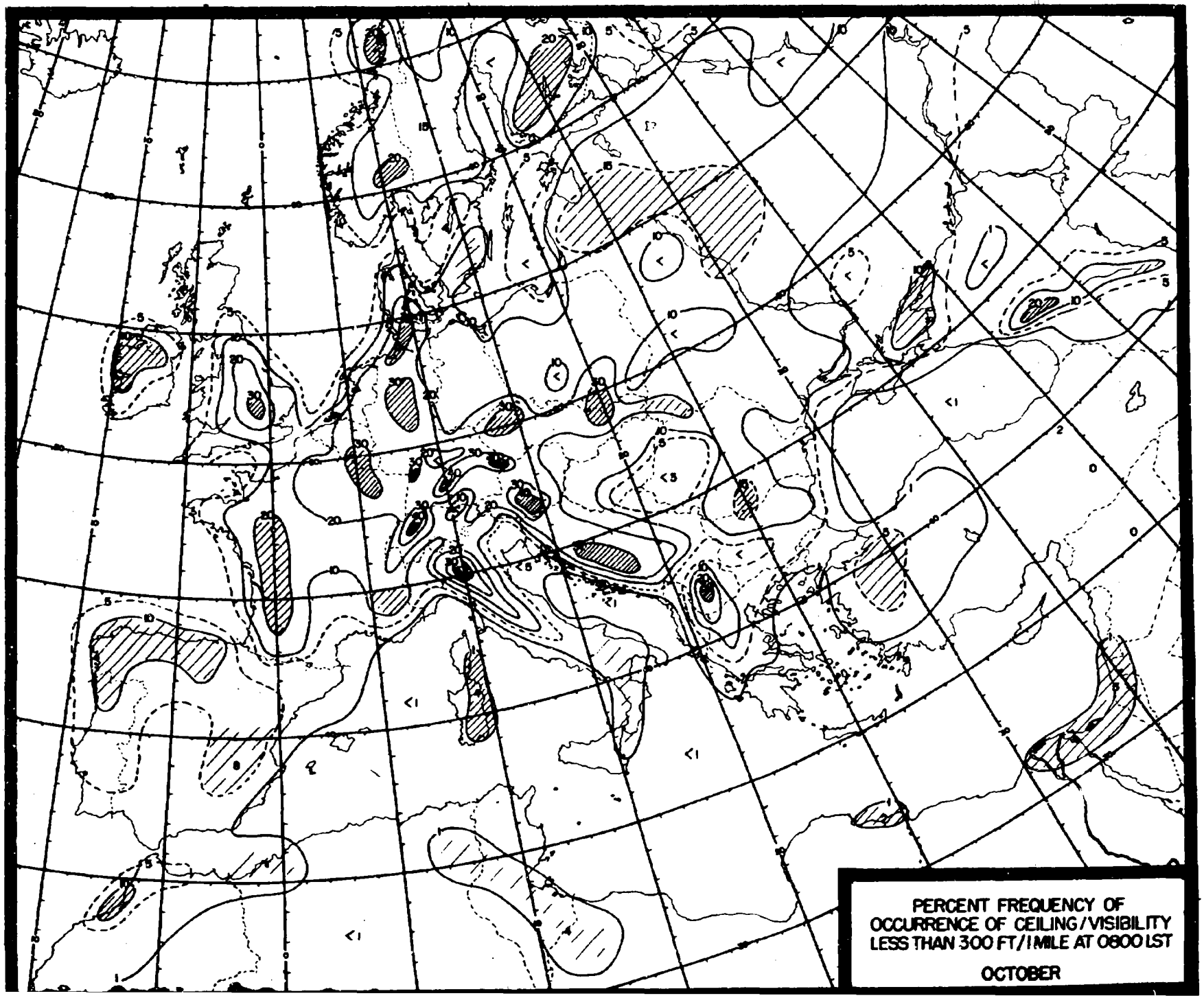

MEAN MONTHLY
PRECIPITATION (IN)
OCTOBER

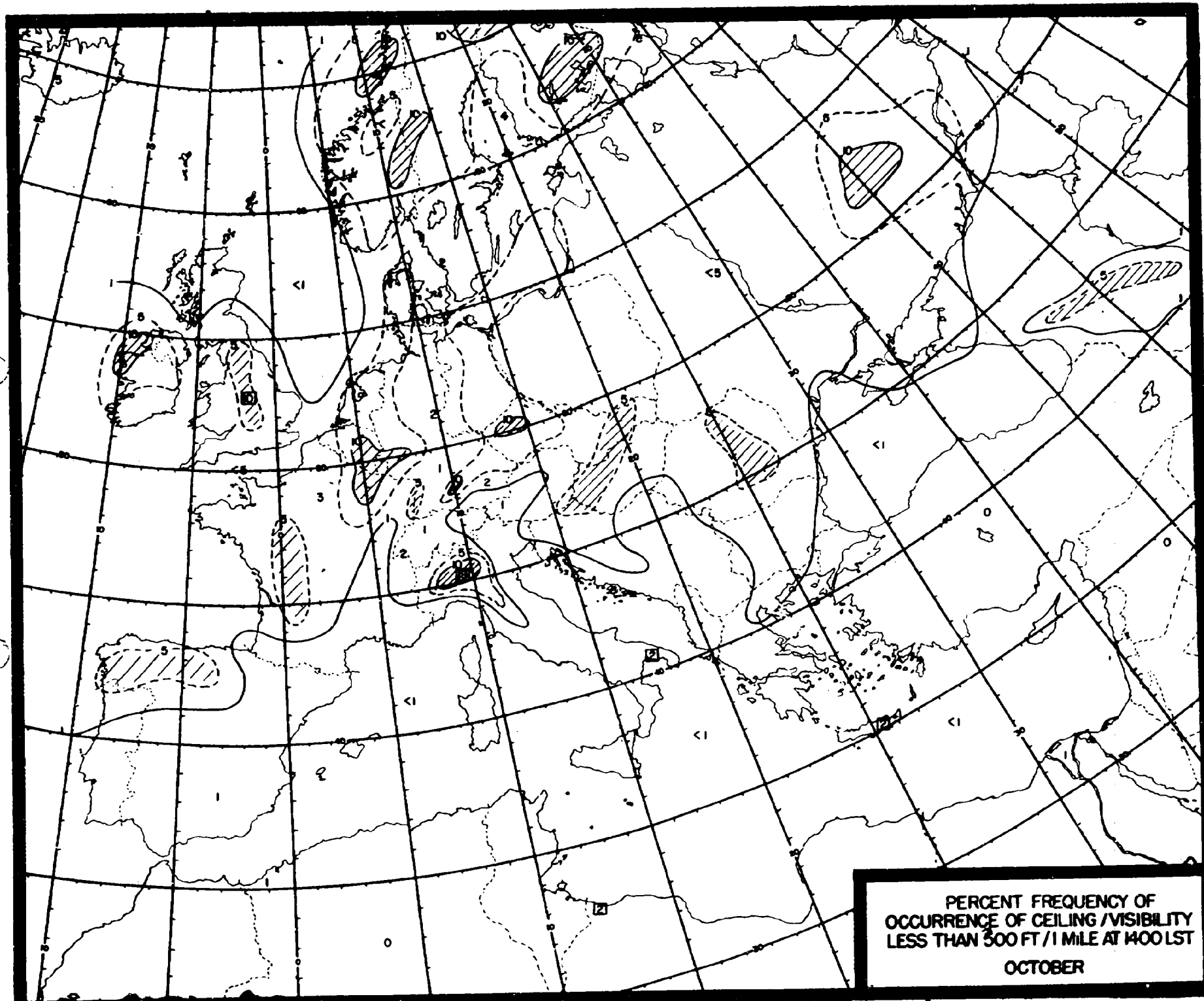

MEAN NUMBER OF
PRECIPITATION DAYS
OCTOBER

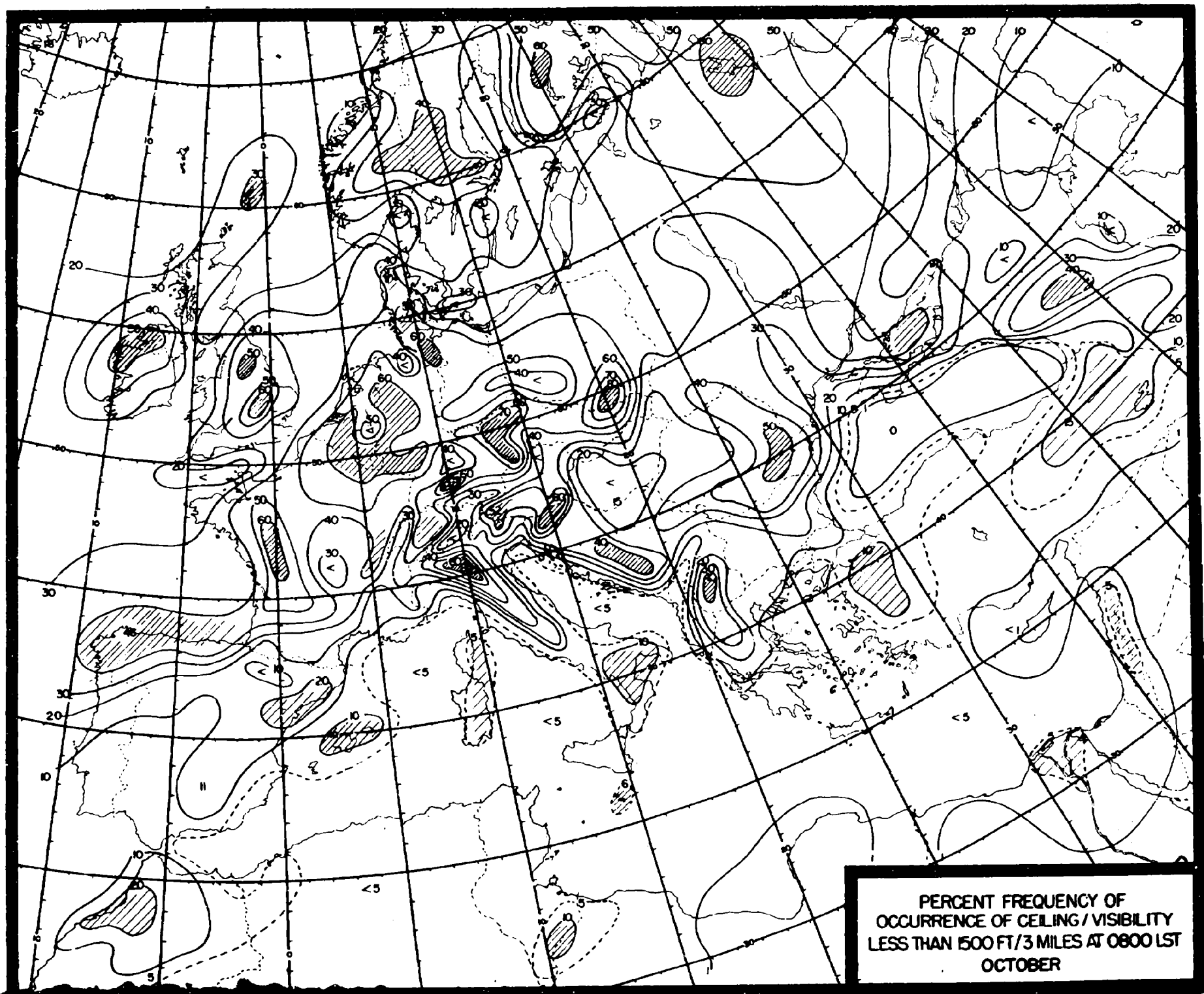


MEAN NUMBER OF
THUNDERSTORM DAYS

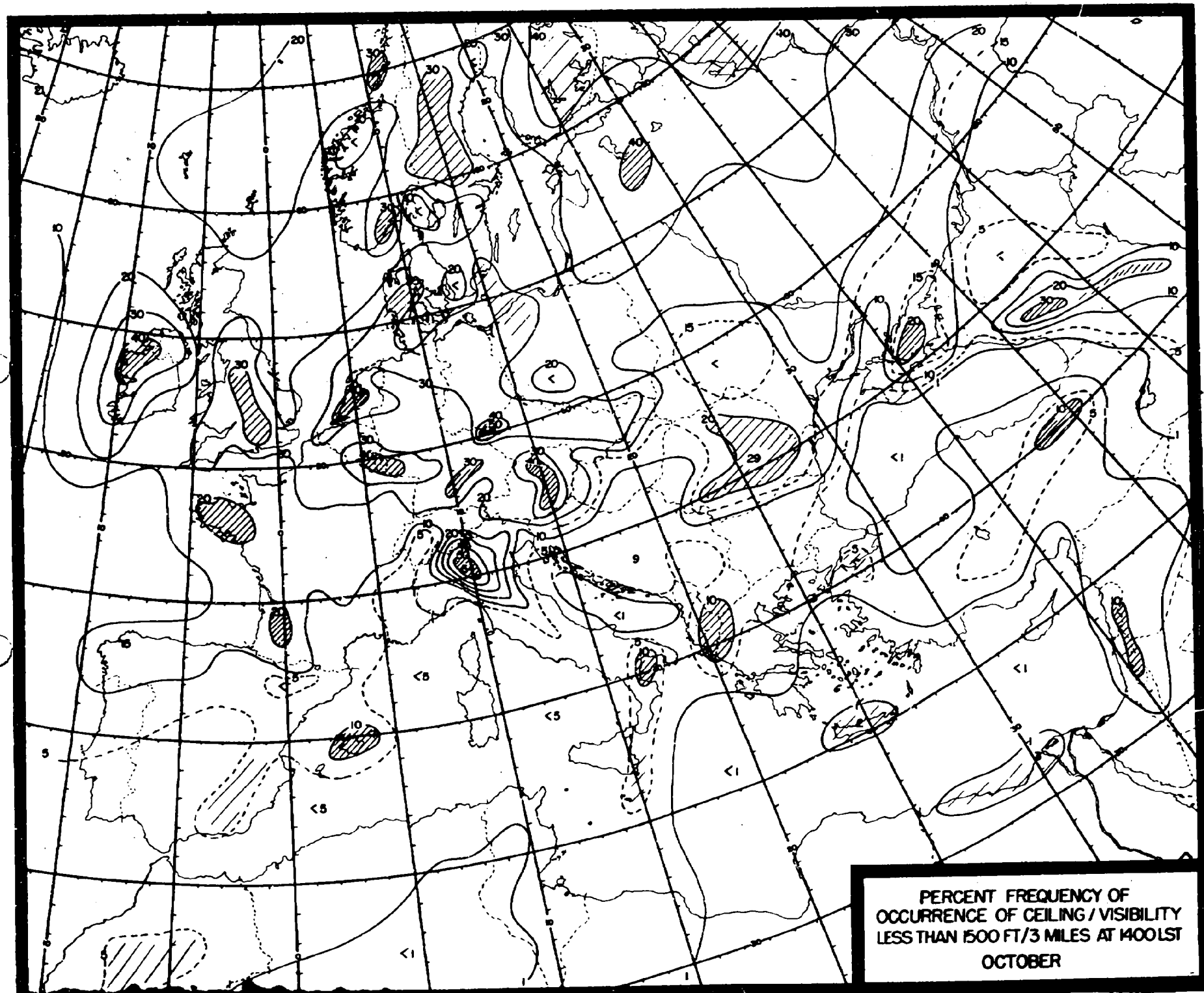
OCTOBER

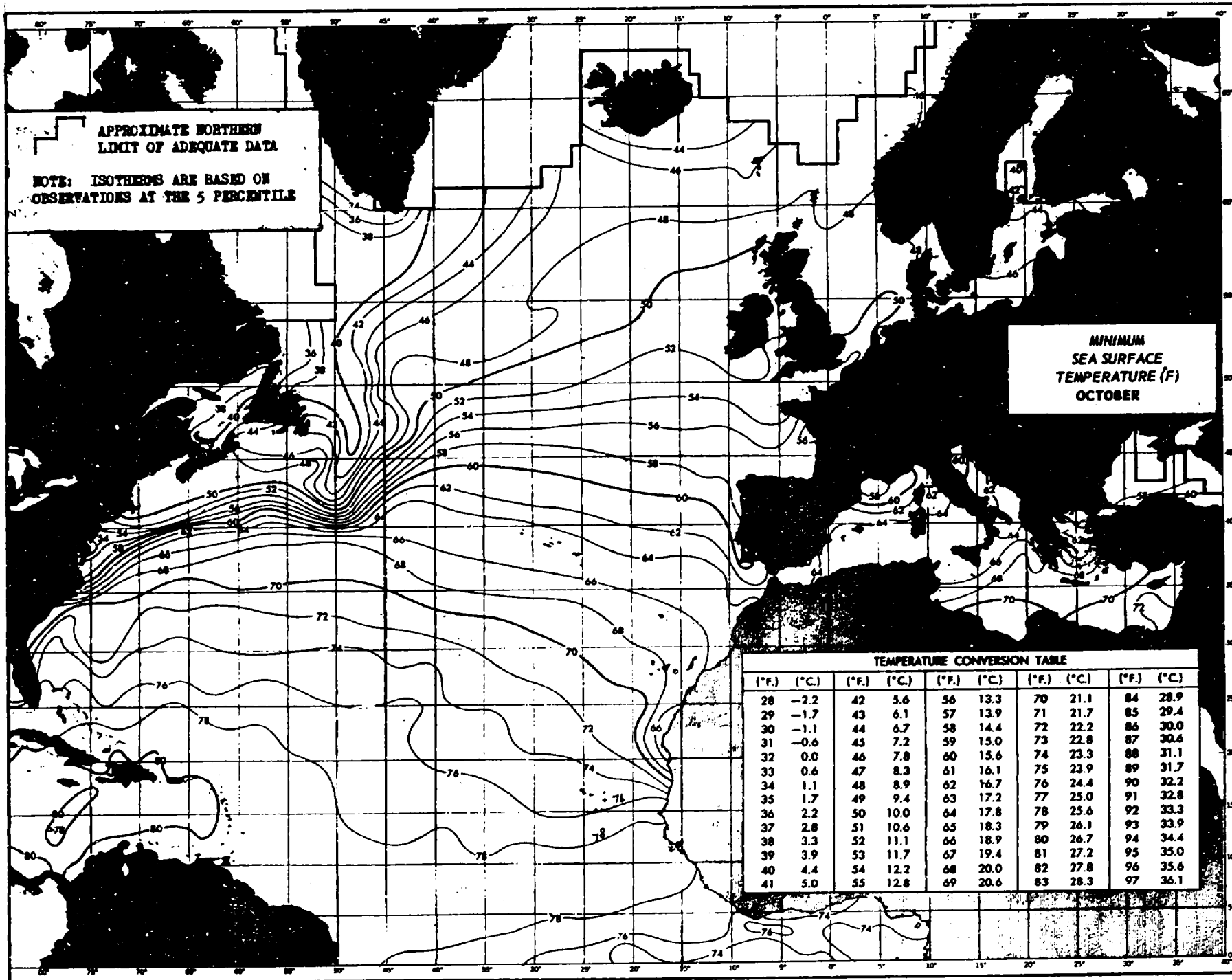

PERCENT FREQUENCY OF
OCCURRENCE OF CEILING/VISIBILITY
LESS THAN 300 FT/1 MILE AT 0800 LST
OCTOBER


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 500 FT / 1 MILE AT 1400 LST
OCTOBER



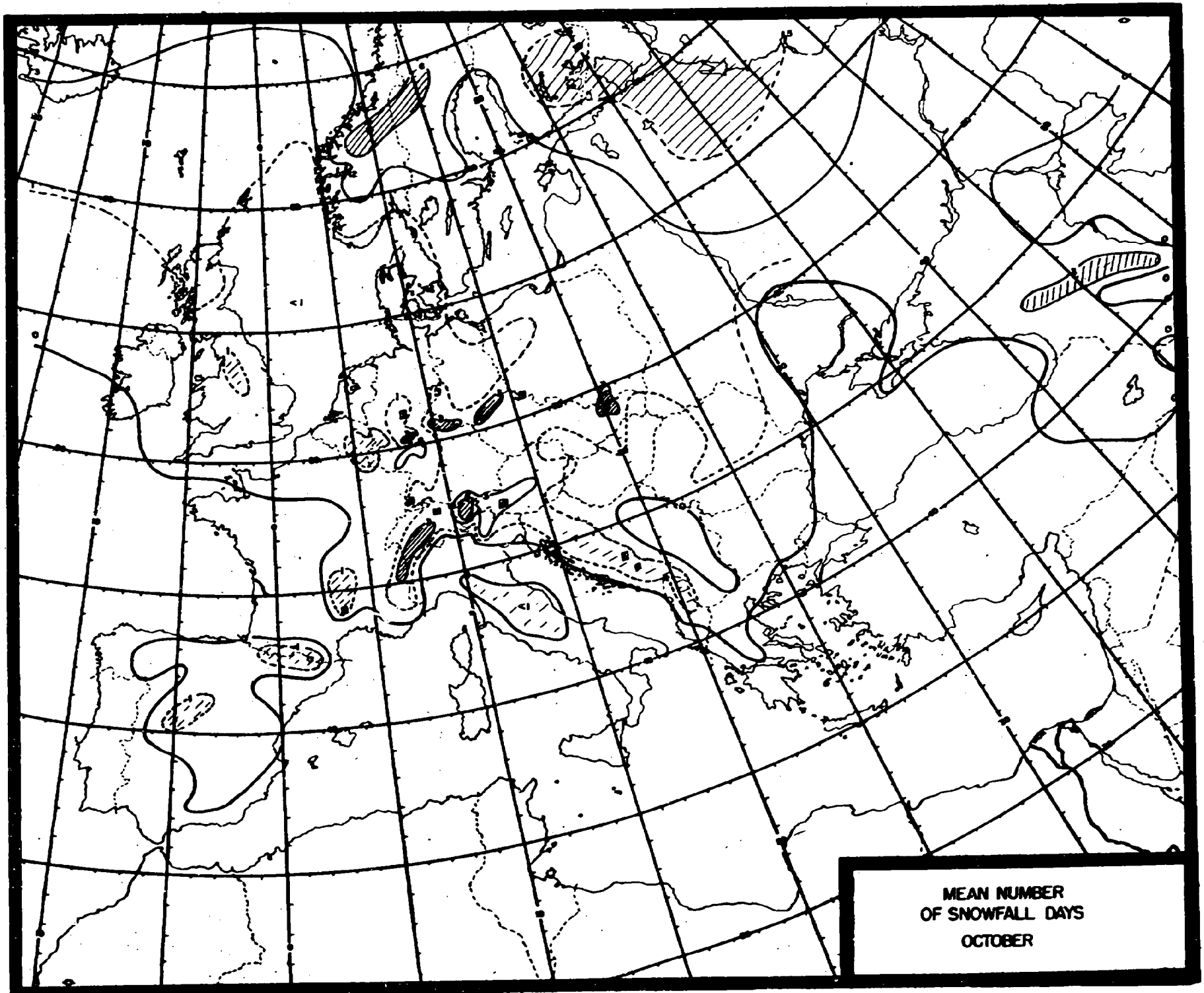
PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT / 3 MILES AT 0800 LST
OCTOBER

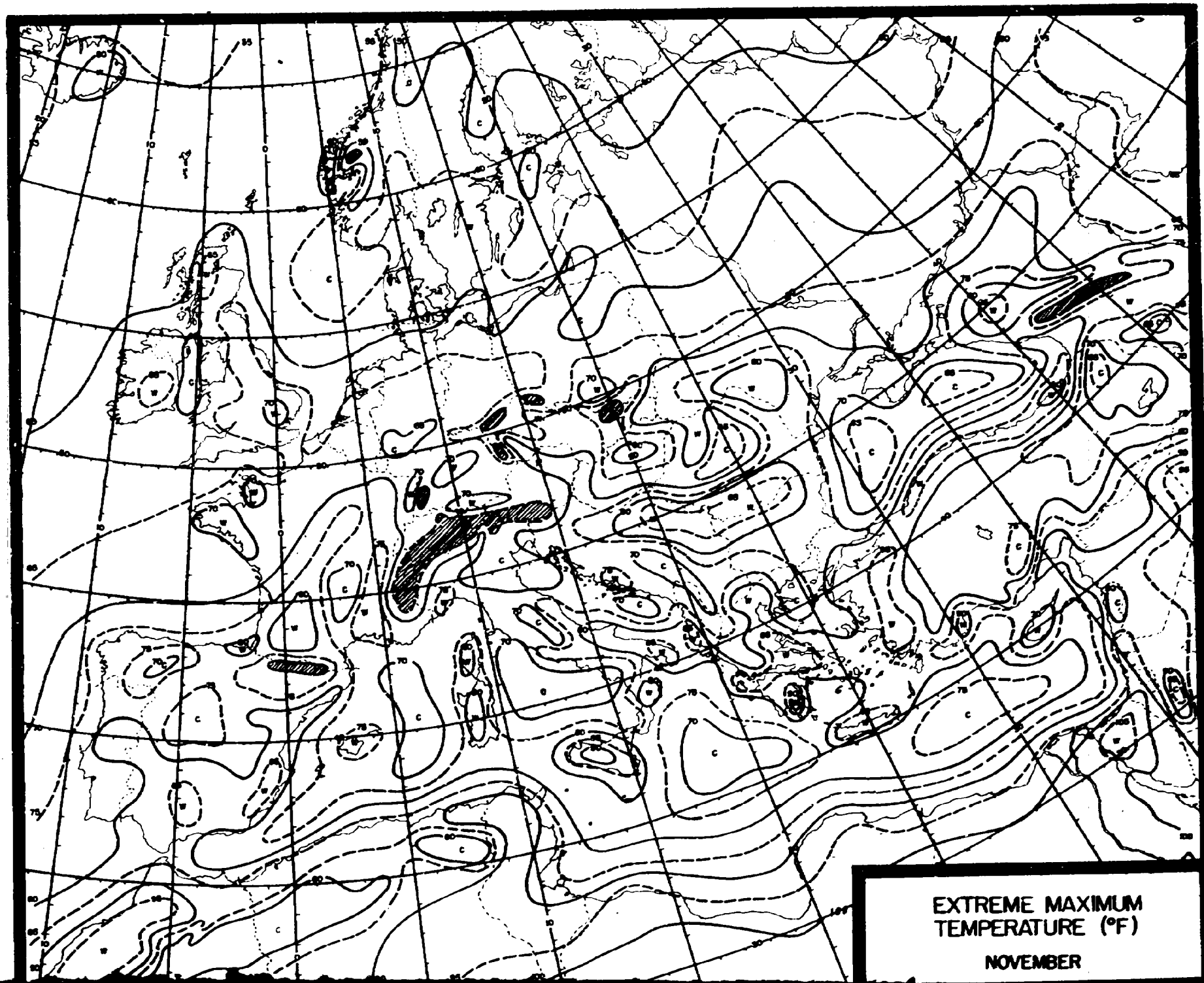

PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 1400 LST
OCTOBER



TEMPERATURE CONVERSION TABLE

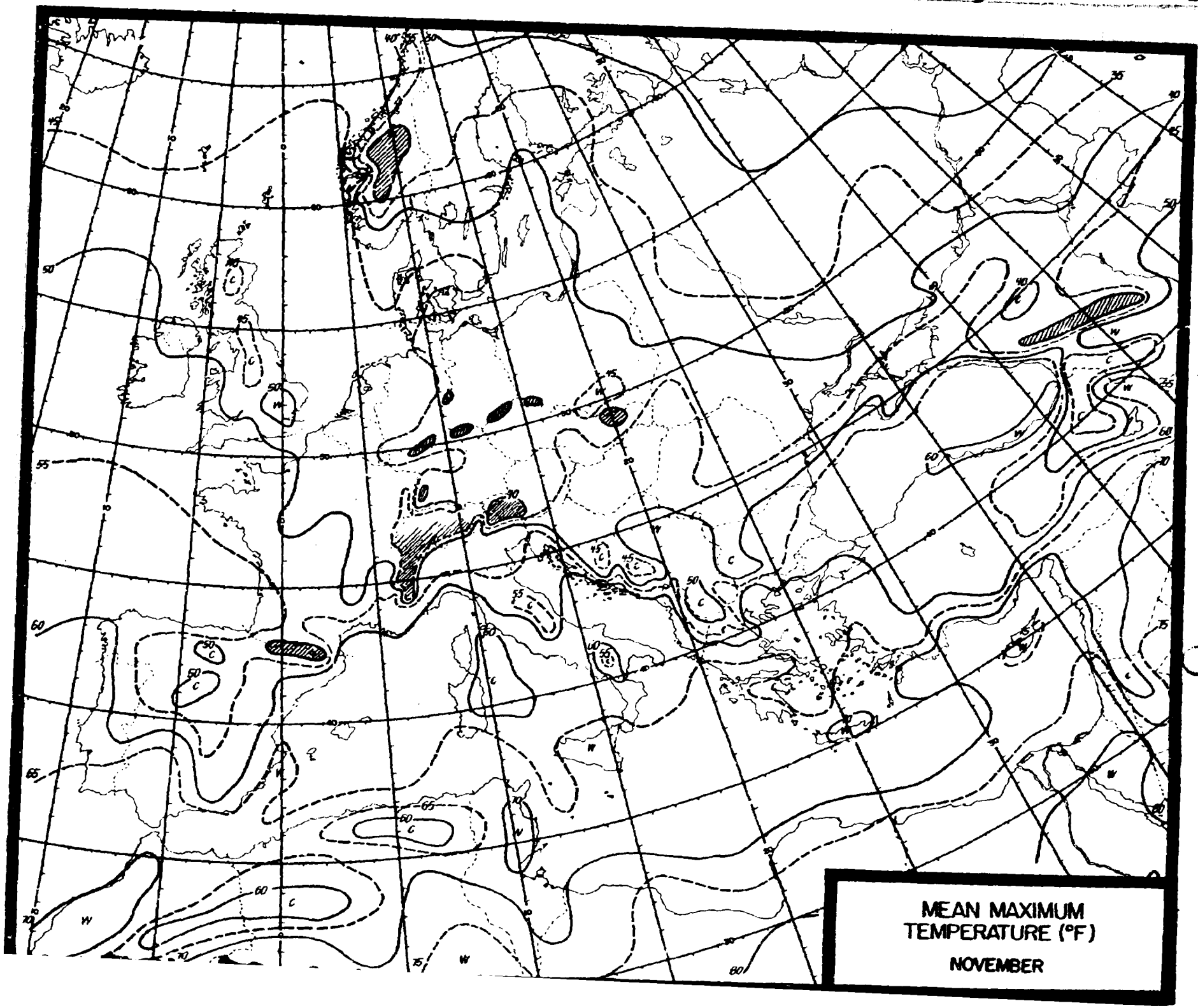
(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)
28	−2.2	42	5.6	56	13.3	70	21.1	84	28.9
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38	3.3	52	11.1	66	18.9	80	26.7	94	34.4
39	3.9	53	11.7	67	19.4	81	27.2	95	35.0
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41	5.0	55	12.8	69	20.6	83	28.3	97	36.1

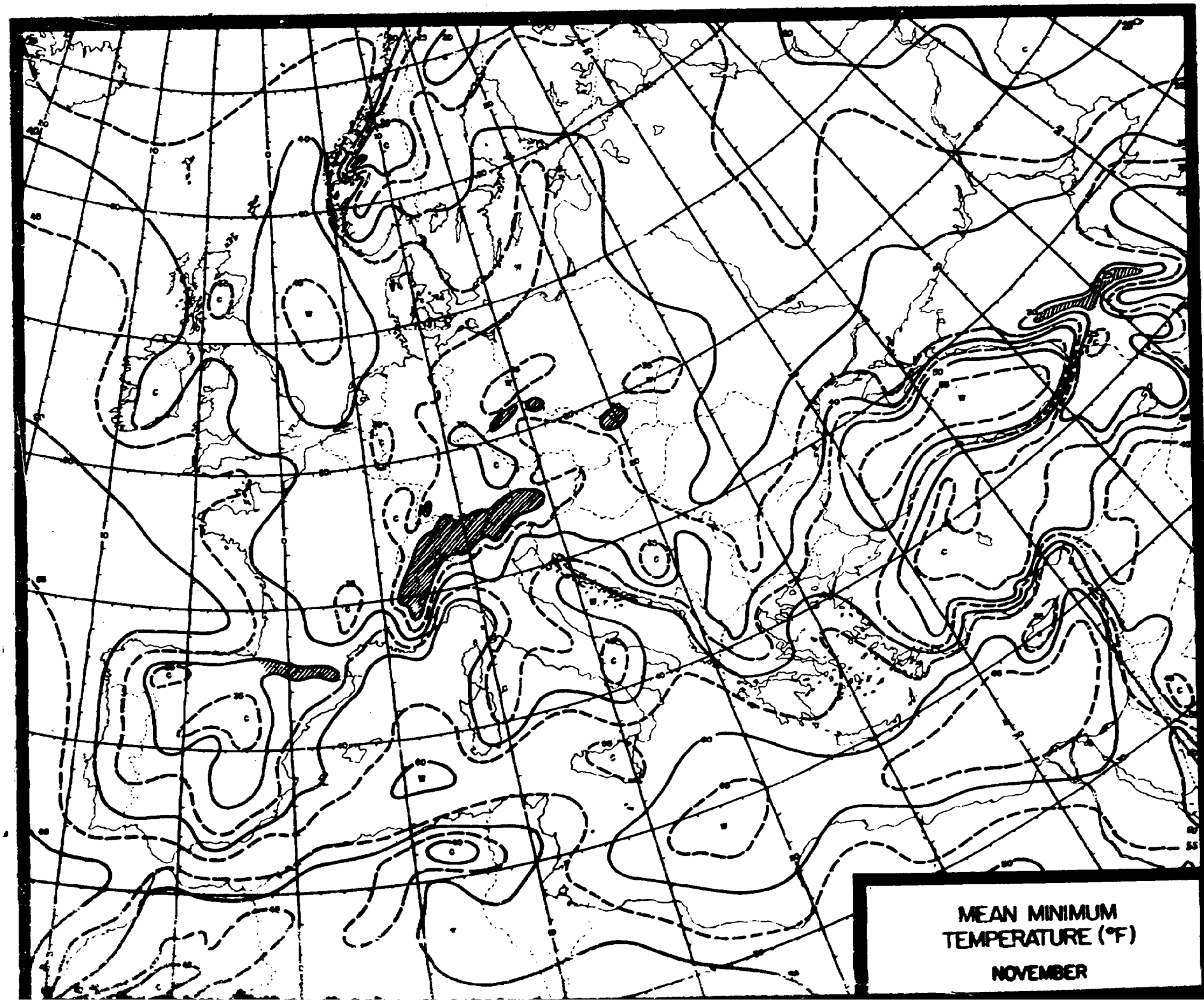

MEAN NUMBER
OF SNOWFALL DAYS
OCTOBER

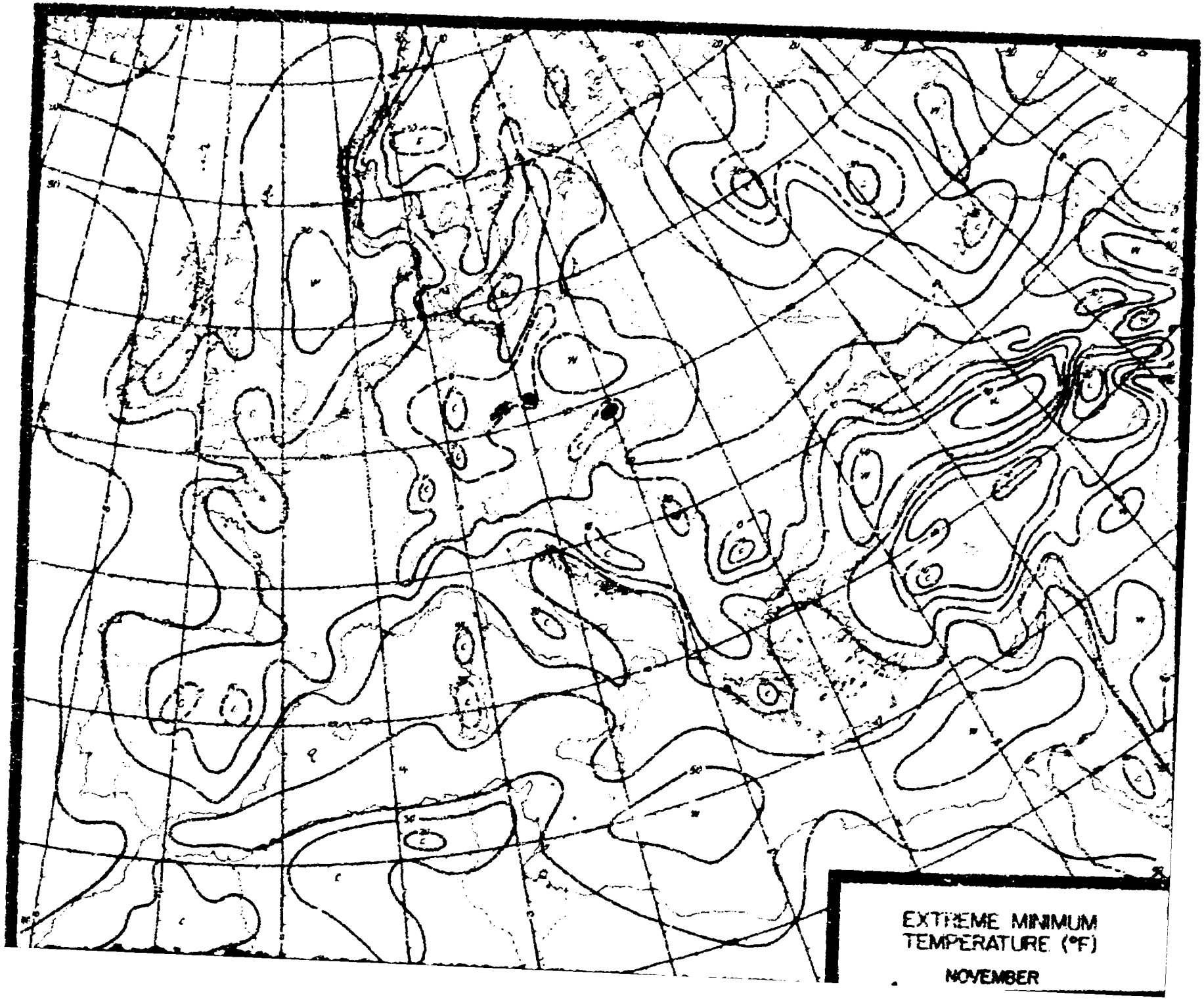


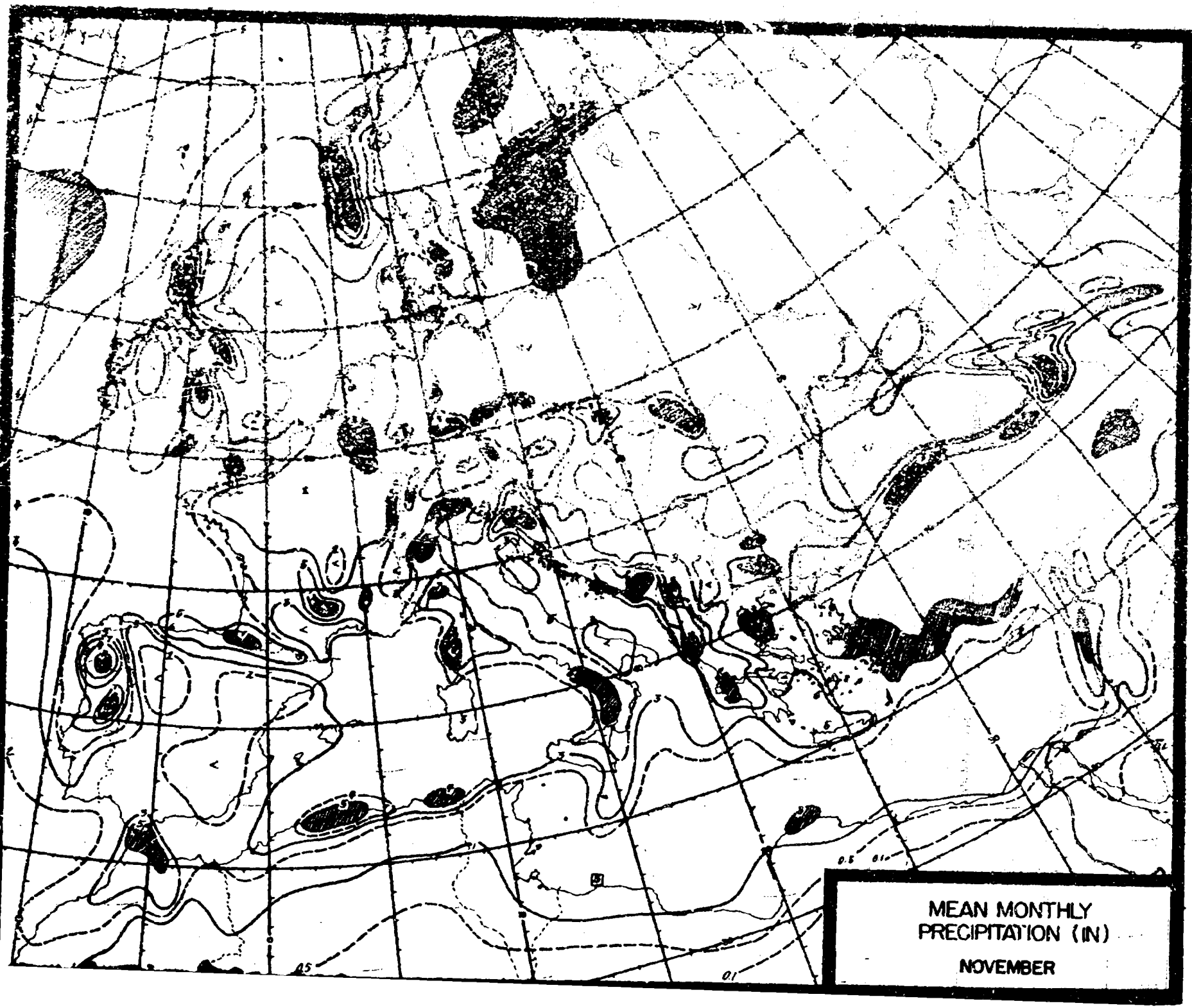
EXTREME MAXIMUM
TEMPERATURE (°F)

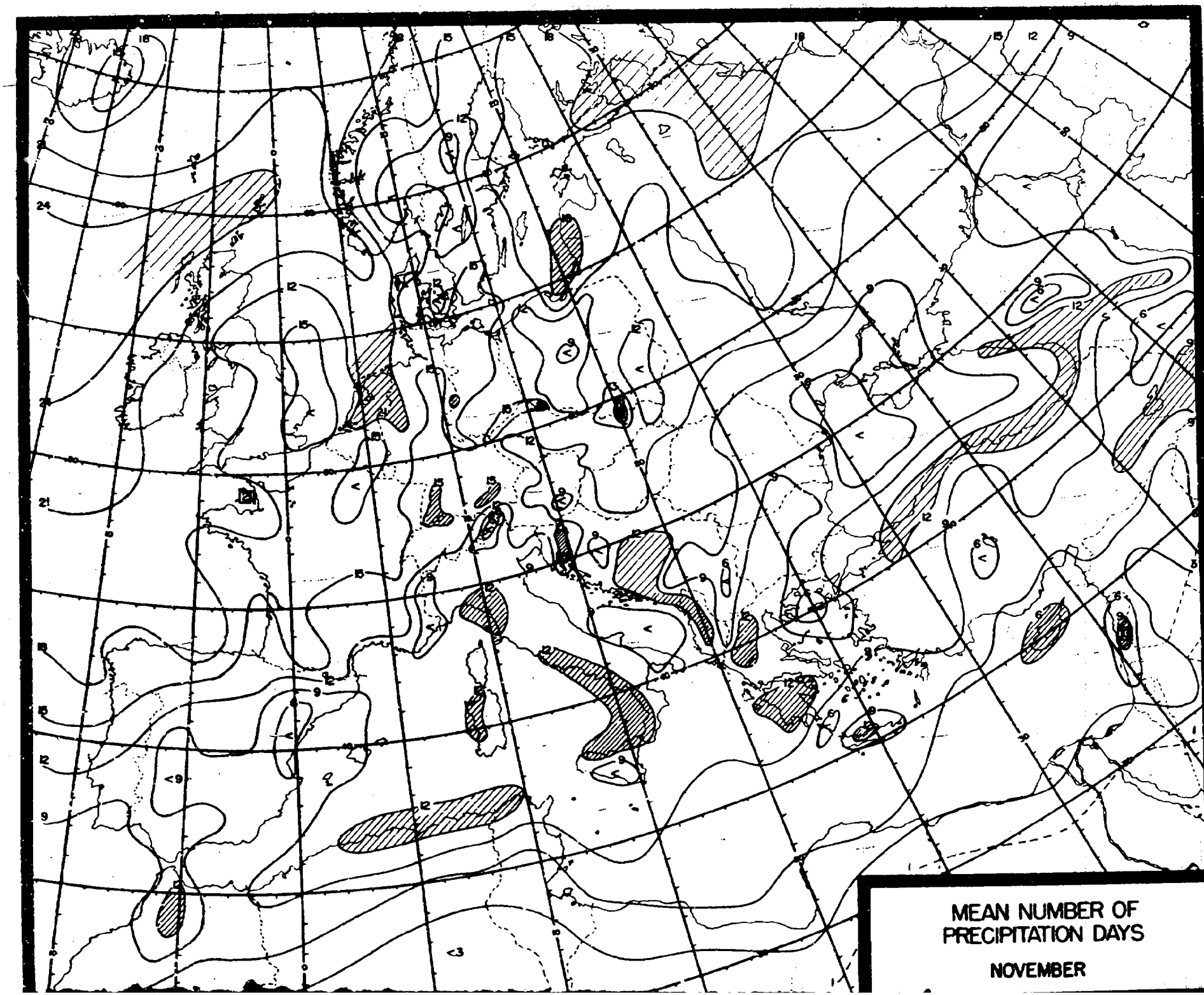
NOVEMBER

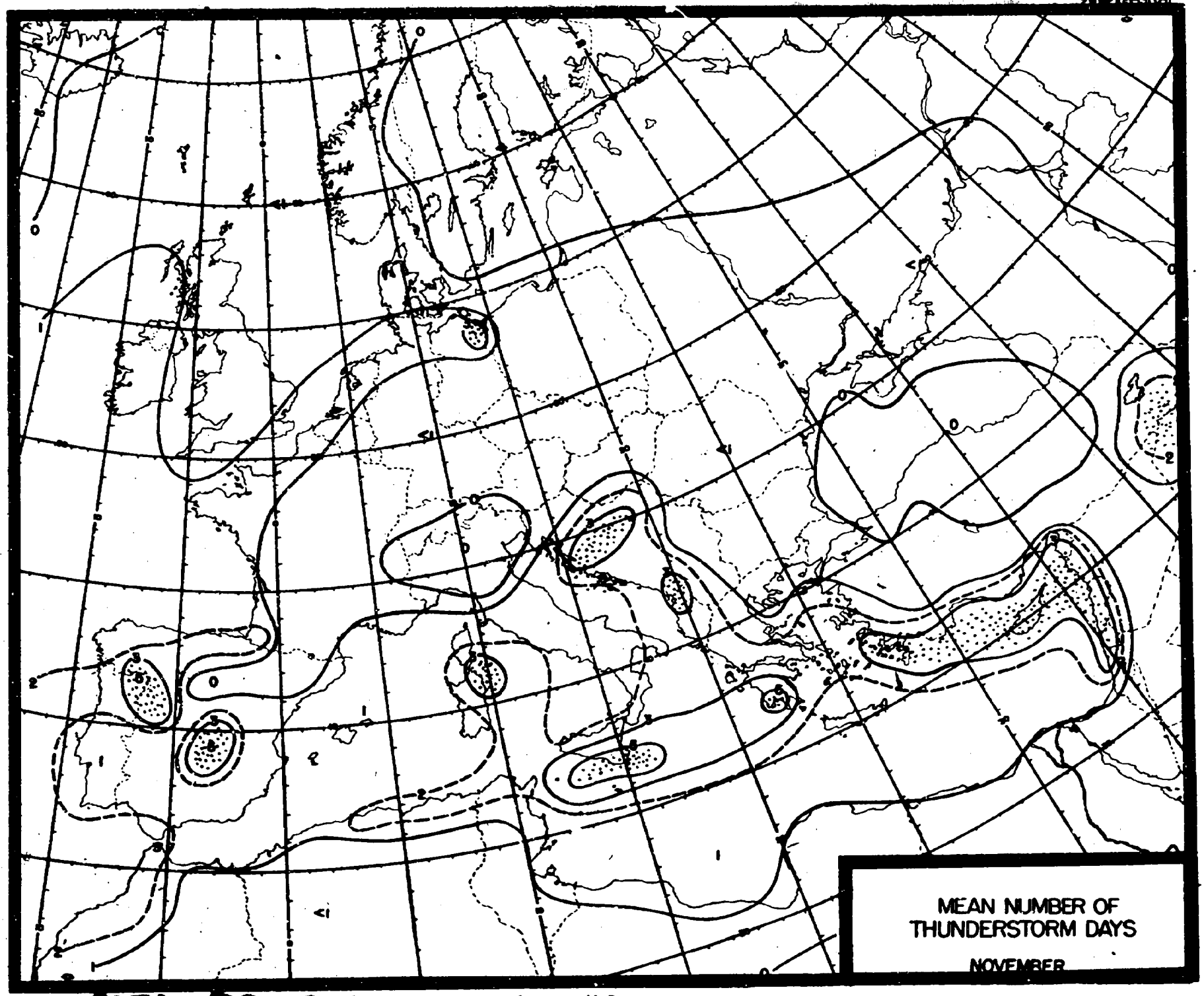

MEAN MAXIMUM
TEMPERATURE (°F)
NOVEMBER

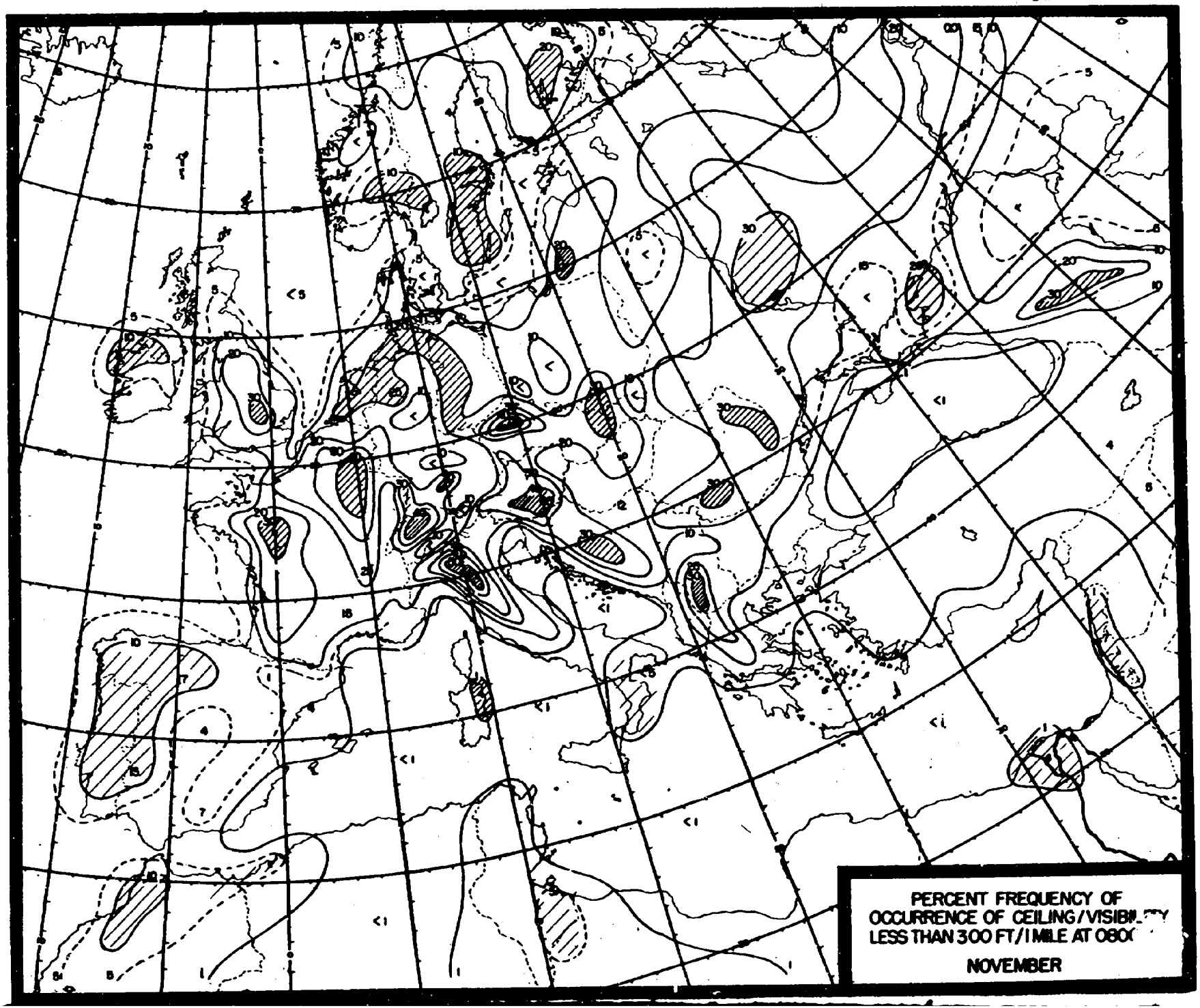

MEAN MINIMUM
TEMPERATURE (°F)
NOVEMBER

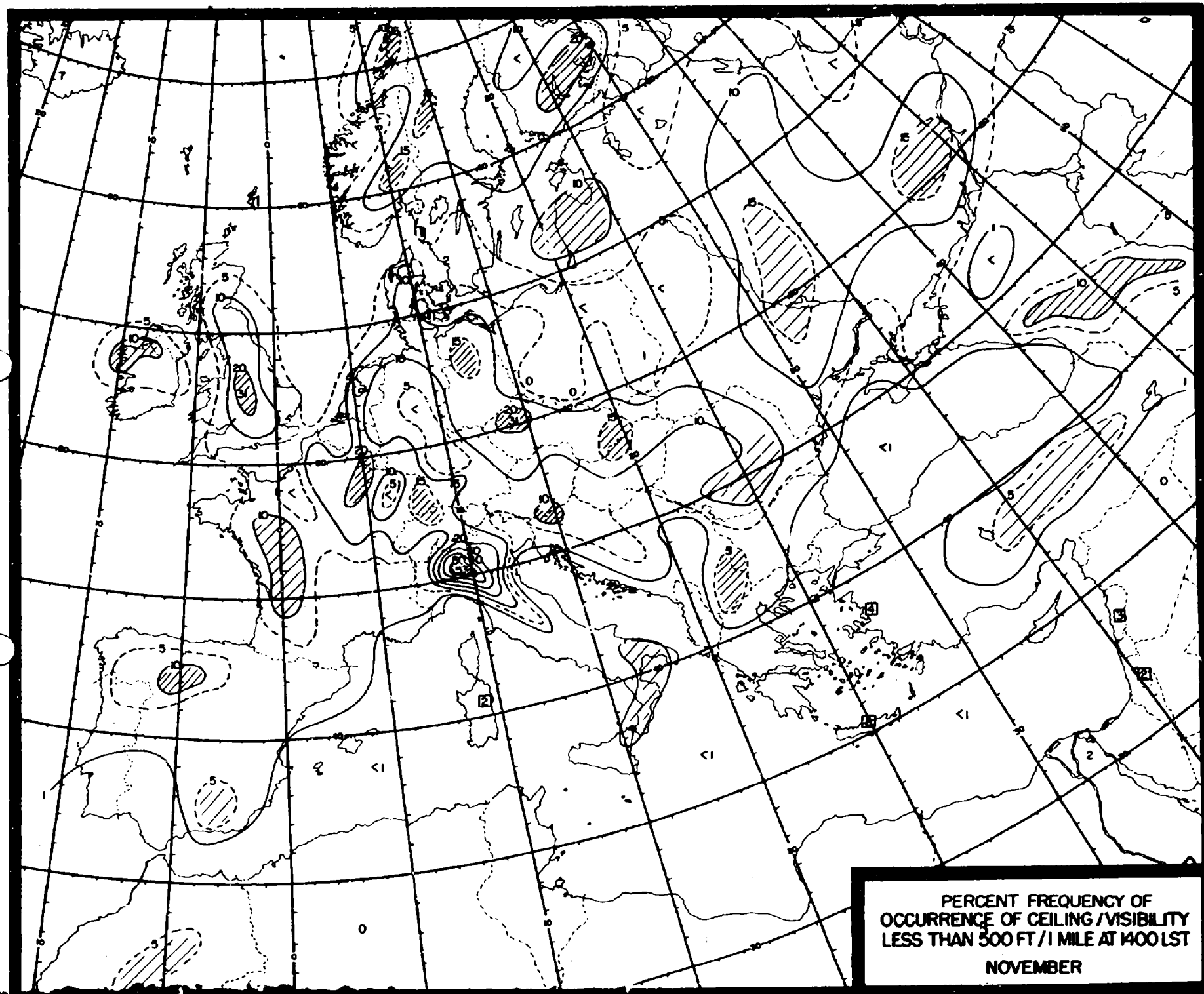

EXTREME MINIMUM
TEMPERATURE (°F)
NOVEMBER


MEAN MONTHLY
PRECIPITATION (IN)
NOVEMBER

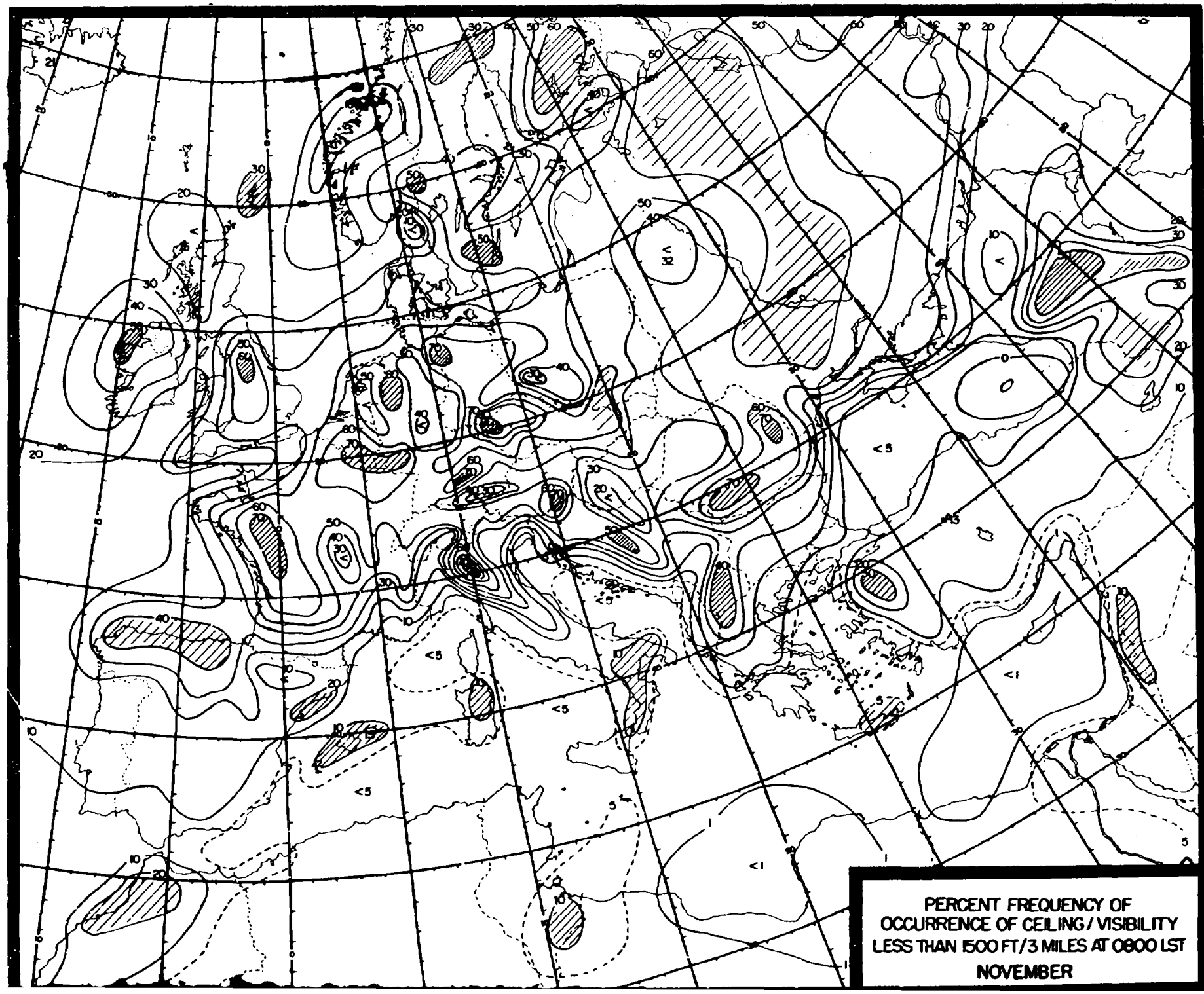

MEAN NUMBER OF
PRECIPITATION DAYS
NOVEMBER


MEAN NUMBER OF
THUNDERSTORM DAYS
NOVEMBER

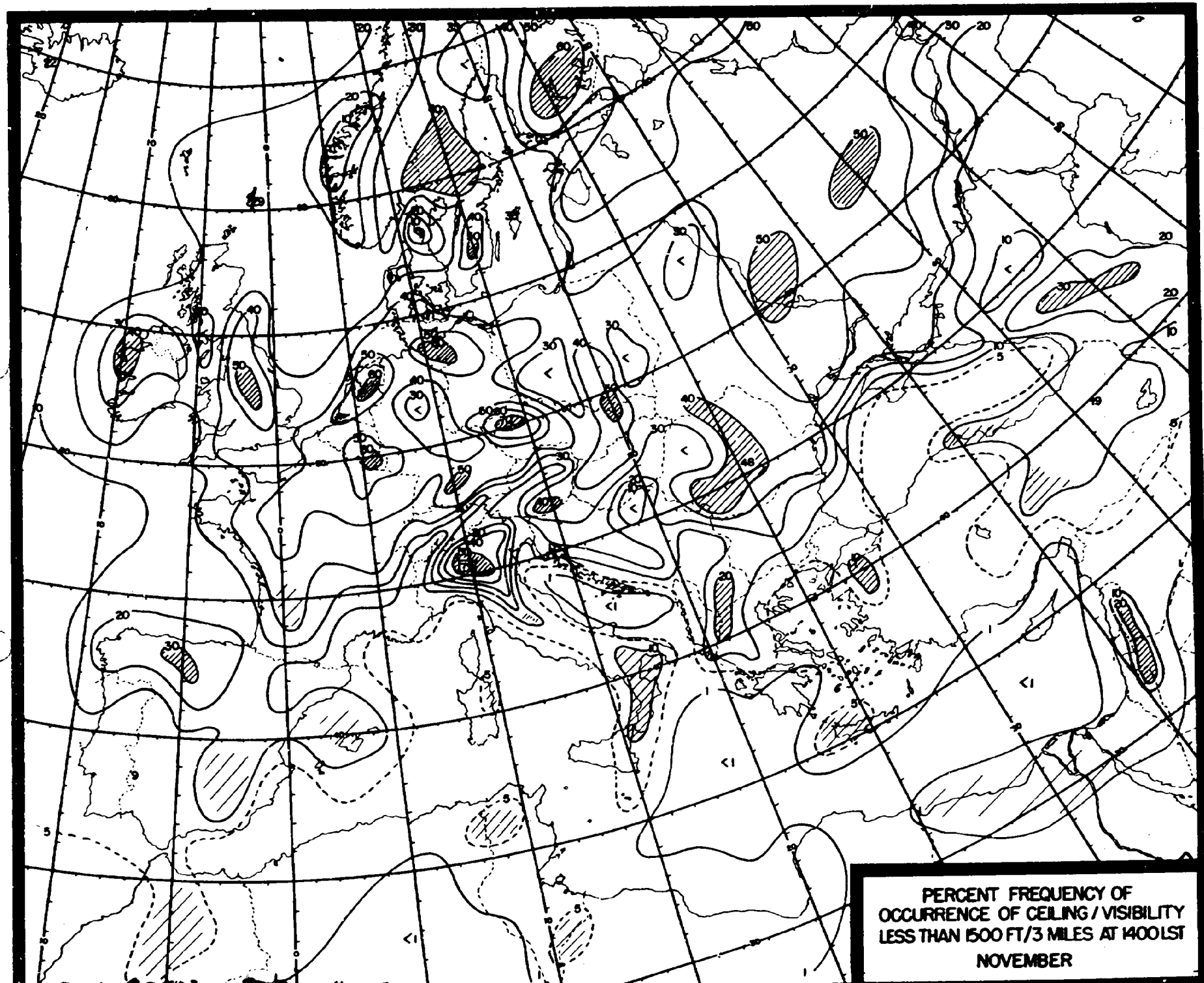

PERCENT FREQUENCY OF
OCCURRENCE OF CEILING/VISIBILITY
LESS THAN 300 FT/1 MILE AT 080(
NOVEMBER



PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 500 FT / 1 MILE AT 1400 LST
NOVEMBER

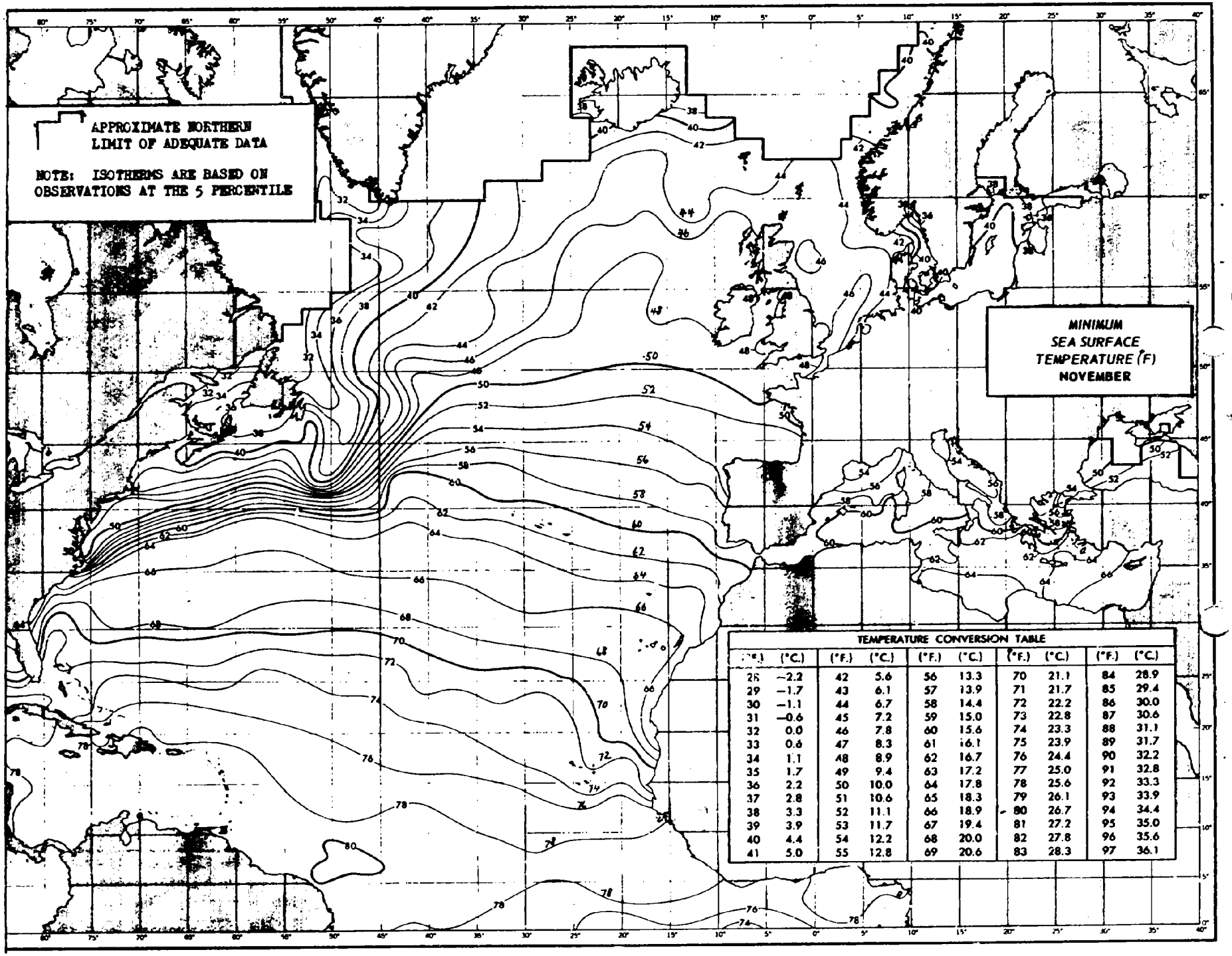


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 0800 LST
NOVEMBER



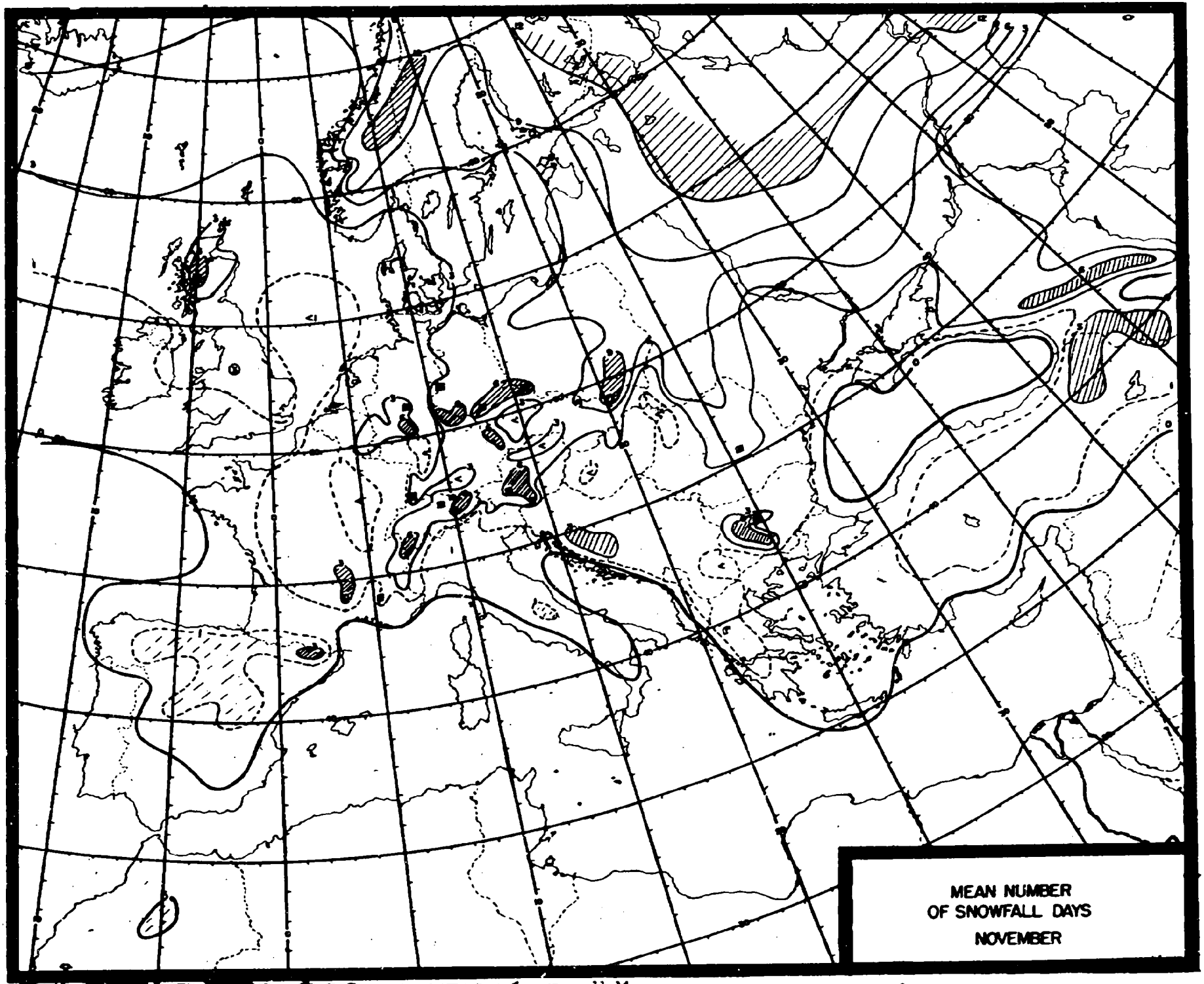
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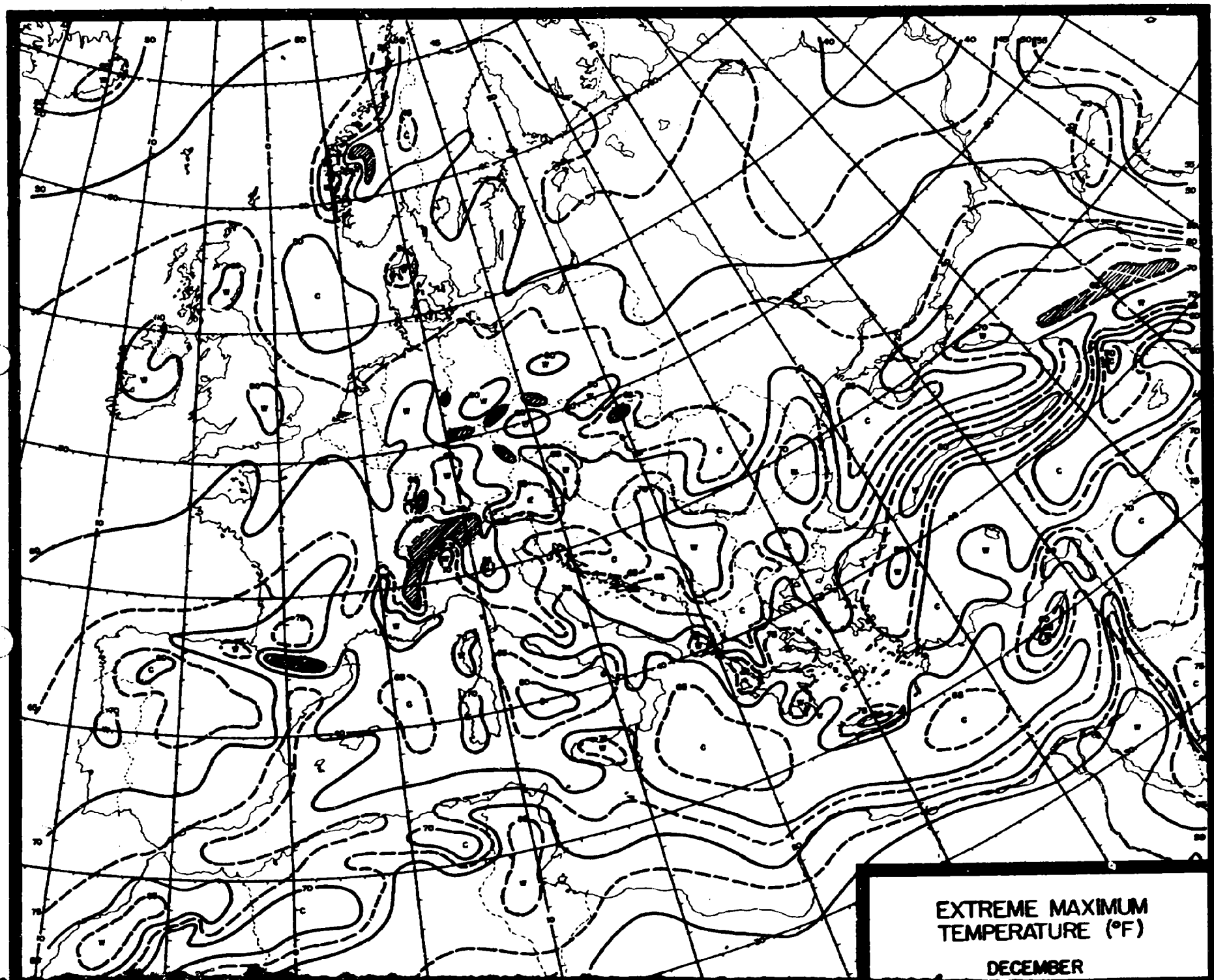
NOVEMBER



TEMPERATURE CONVERSION TABLE

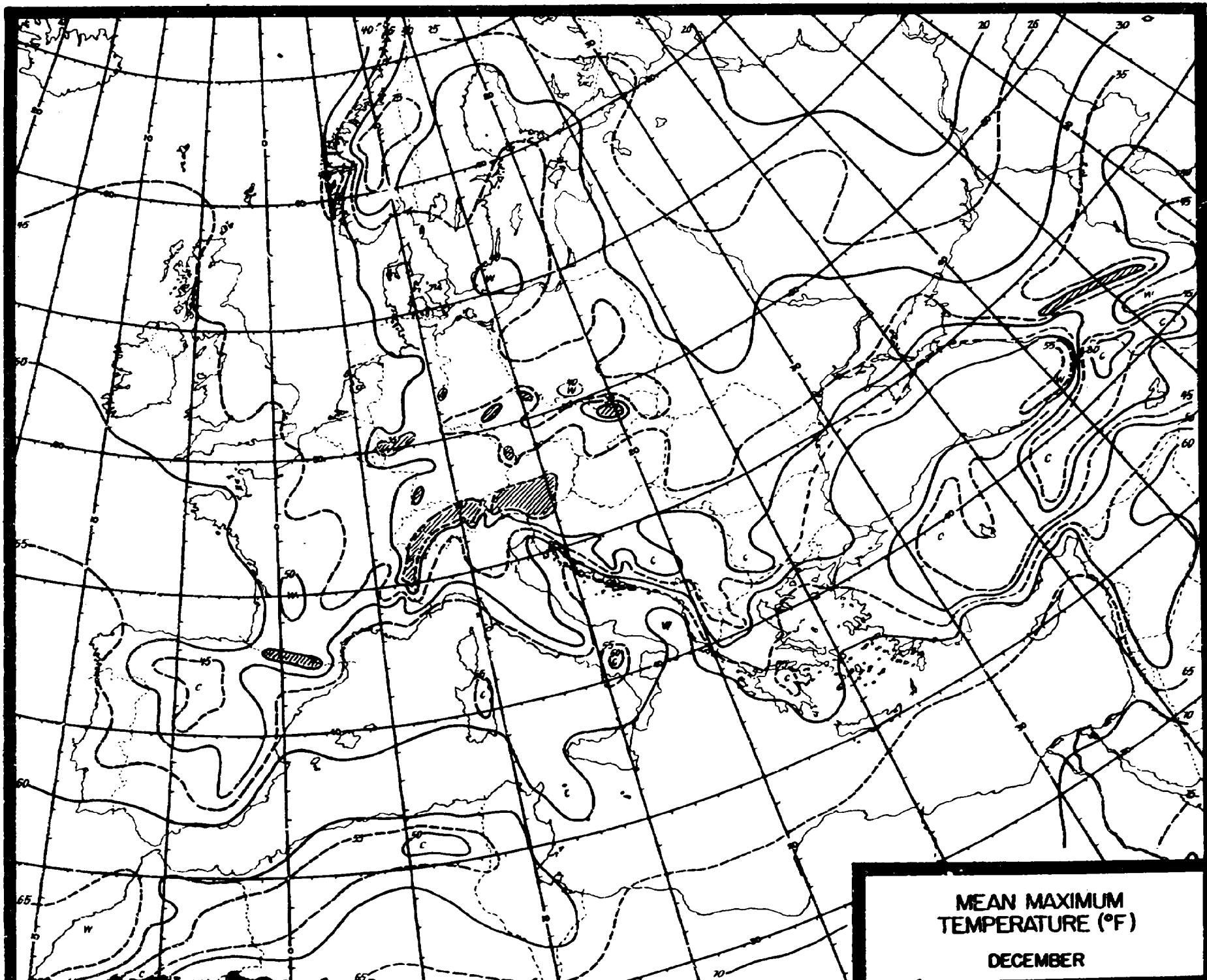
(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)
28	−2.2	42	5.6	56	13.3	70	21.1	84	28.9
29	−1.7	43	6.1	57	13.9	71	21.7	85	29.4
30	−1.1	44	6.7	58	14.4	72	22.2	86	30.0
31	−0.6	45	7.2	59	15.0	73	22.8	87	30.6
32	0.0	46	7.8	60	15.6	74	23.3	88	31.1
33	0.6	47	8.3	61	16.1	75	23.9	89	31.7
34	1.1	48	8.9	62	16.7	76	24.4	90	32.2
35	1.7	49	9.4	63	17.2	77	25.0	91	32.8
36	2.2	50	10.0	64	17.8	78	25.6	92	33.3
37	2.8	51	10.6	65	18.3	79	26.1	93	33.9
38	3.3	52	11.1	66	18.9	80	26.7	94	34.4
39	3.9	53	11.7	67	19.4	81	27.2	95	35.0
40	4.4	54	12.2	68	20.0	82	27.8	96	35.6
41	5.0	55	12.8	69	20.6	83	28.3	97	36.1


MEAN NUMBER
OF SNOWFALL DAYS
NOVEMBER



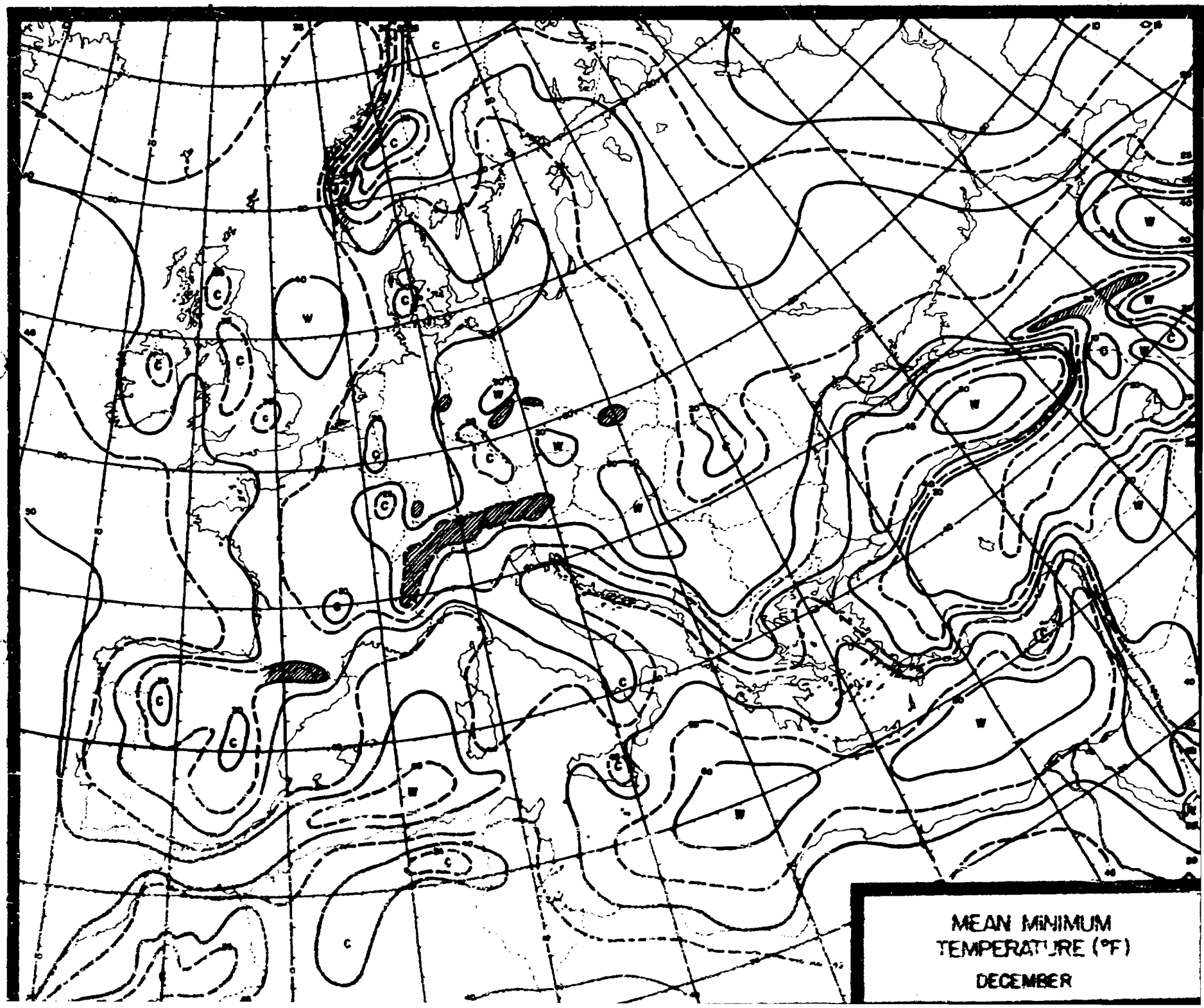
EXTREME MAXIMUM
TEMPERATURE (°F)

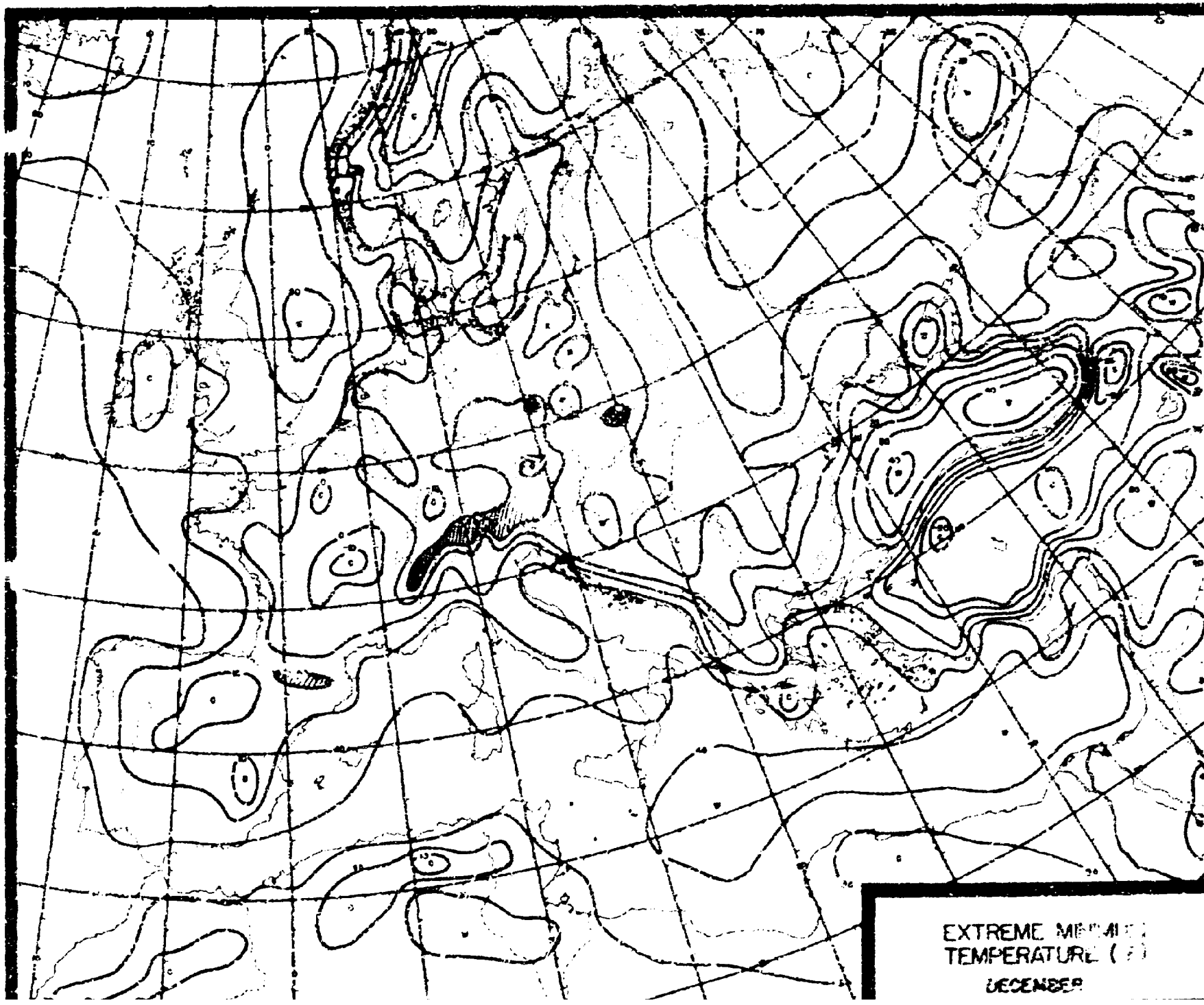
DECEMBER

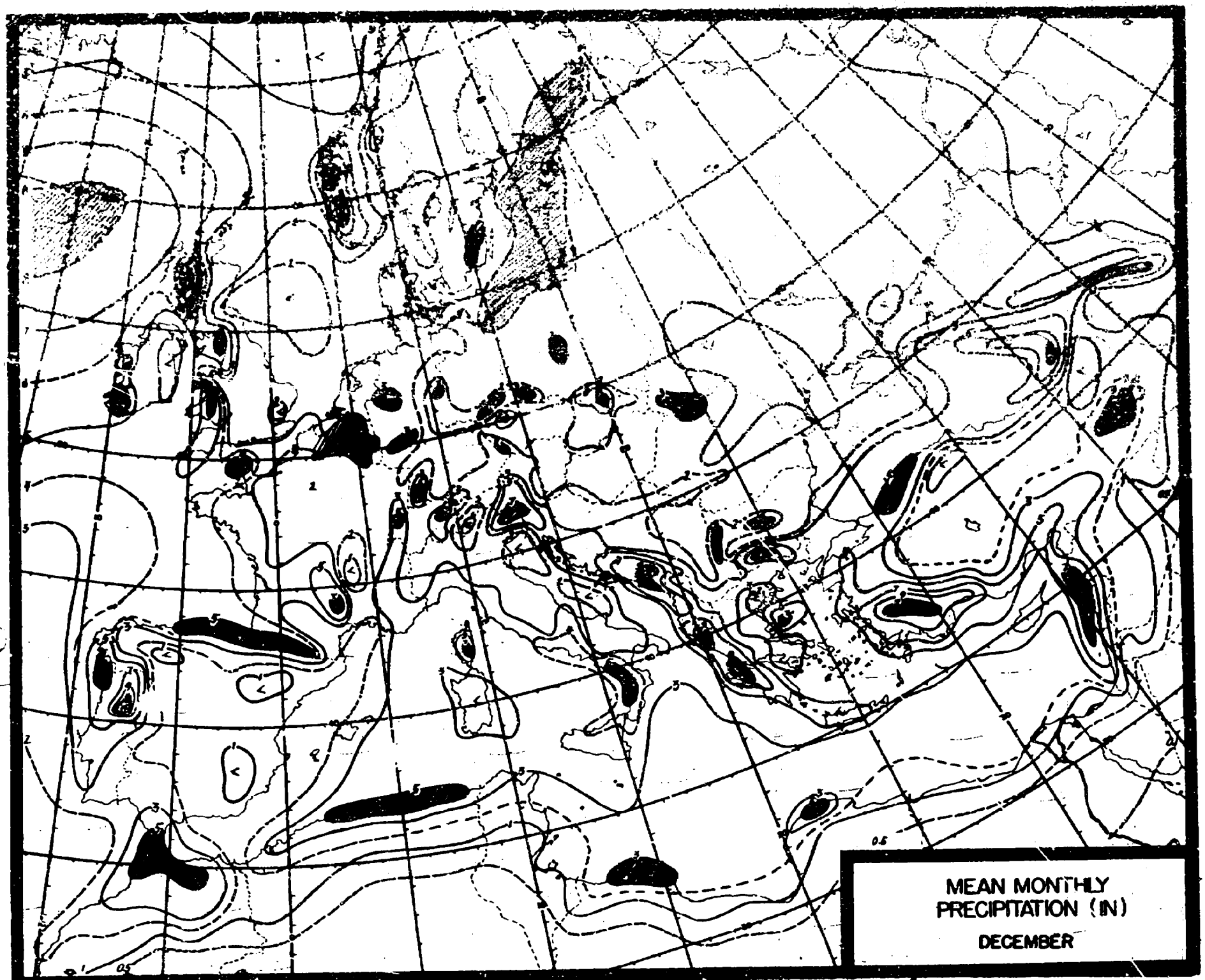


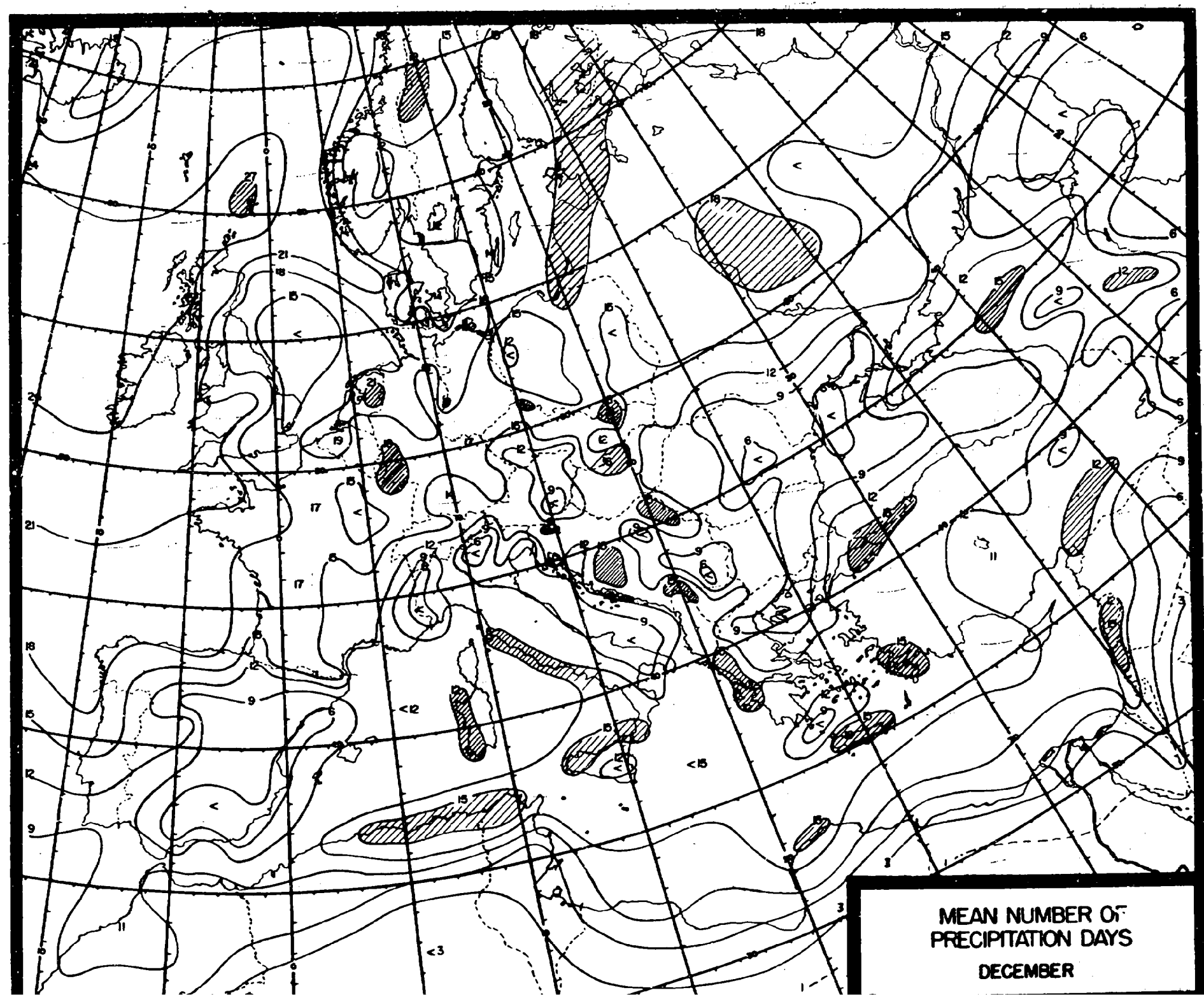
MEAN MAXIMUM
TEMPERATURE (°F)

DECEMBER


MEAN MINIMUM
TEMPERATURE (°F)
DECEMBER

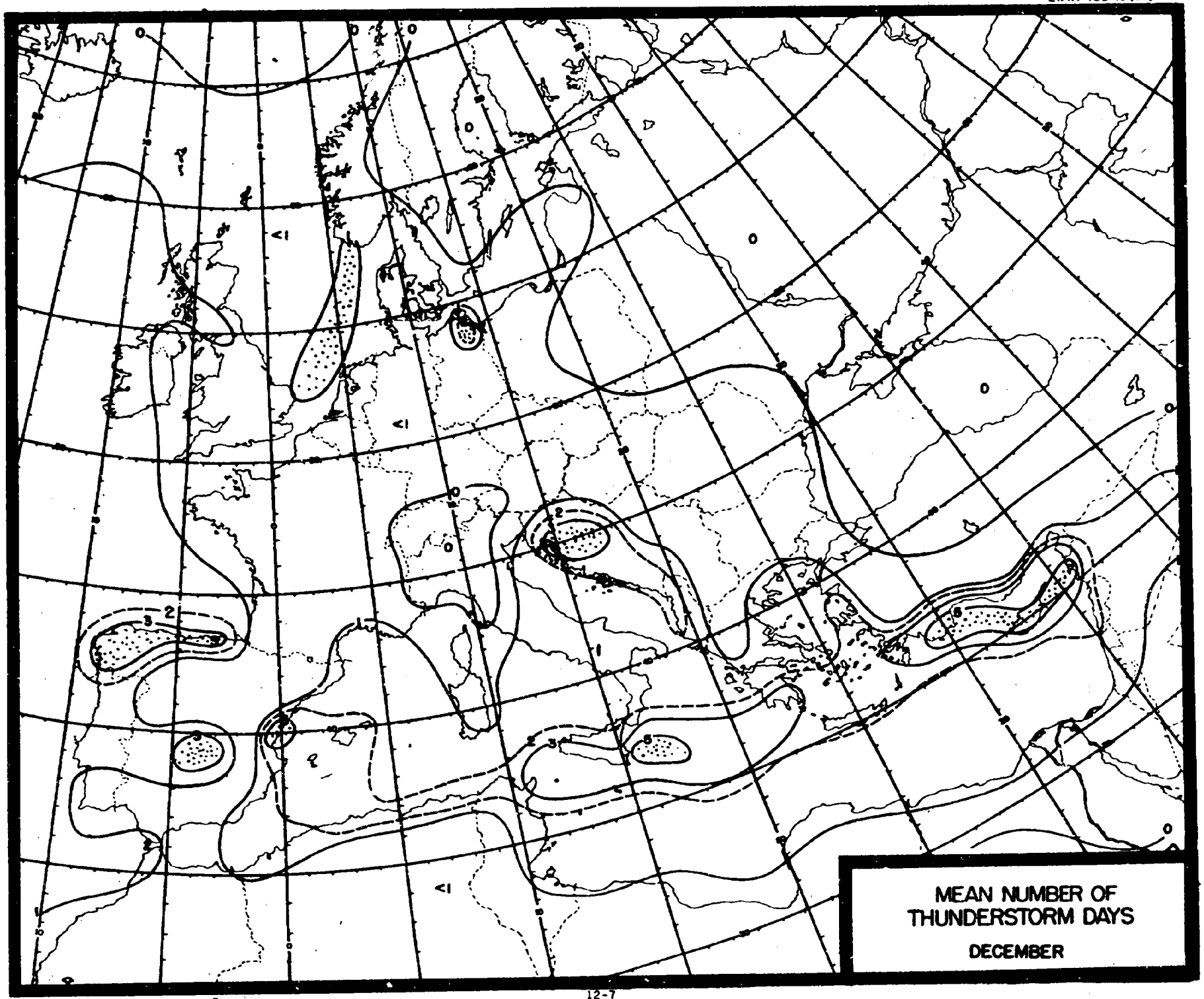

EXTREME ME
TEMPERATURE (
DECEMBER

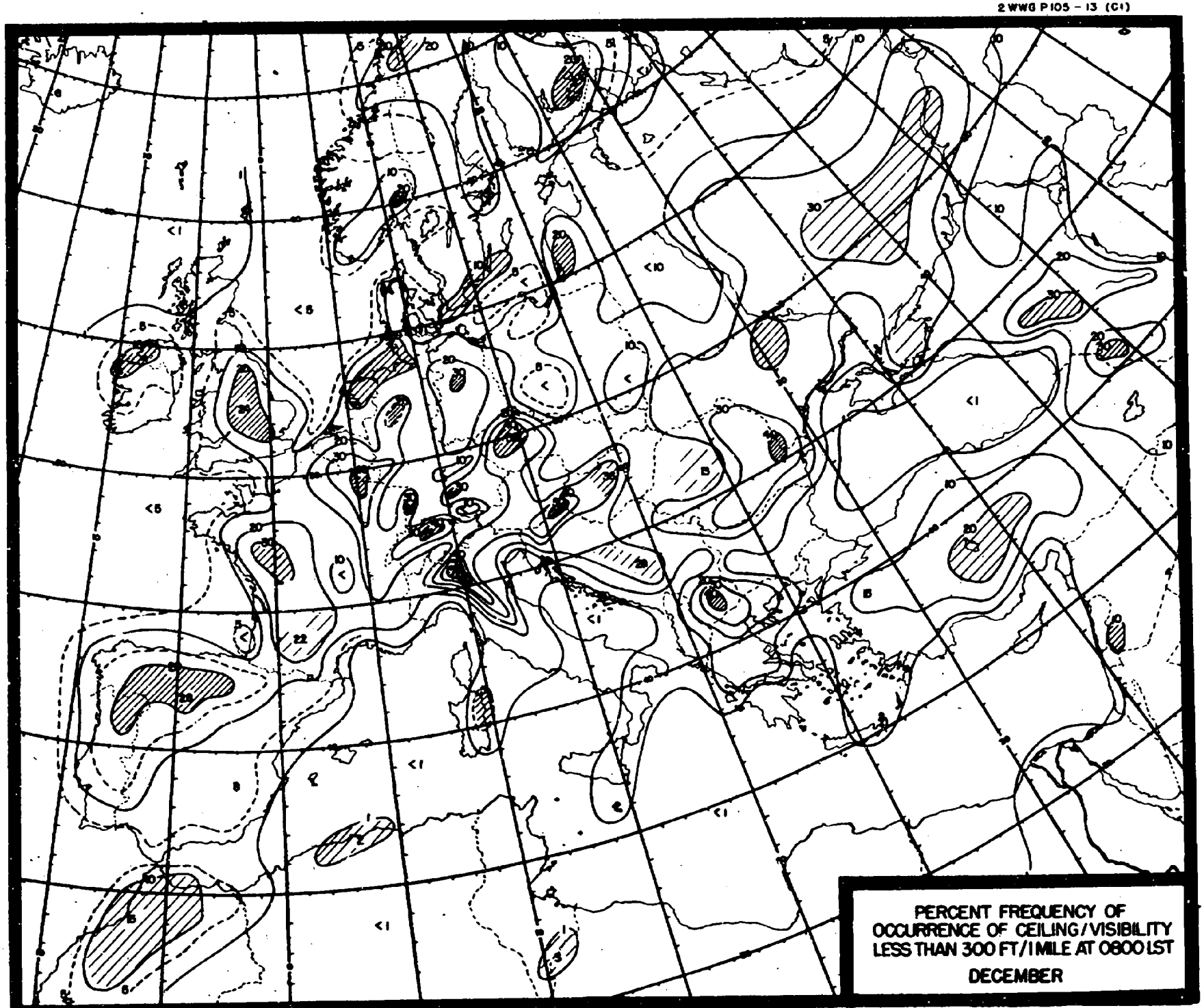

MEAN MONTHLY
PRECIPITATION (IN)
DECEMBER

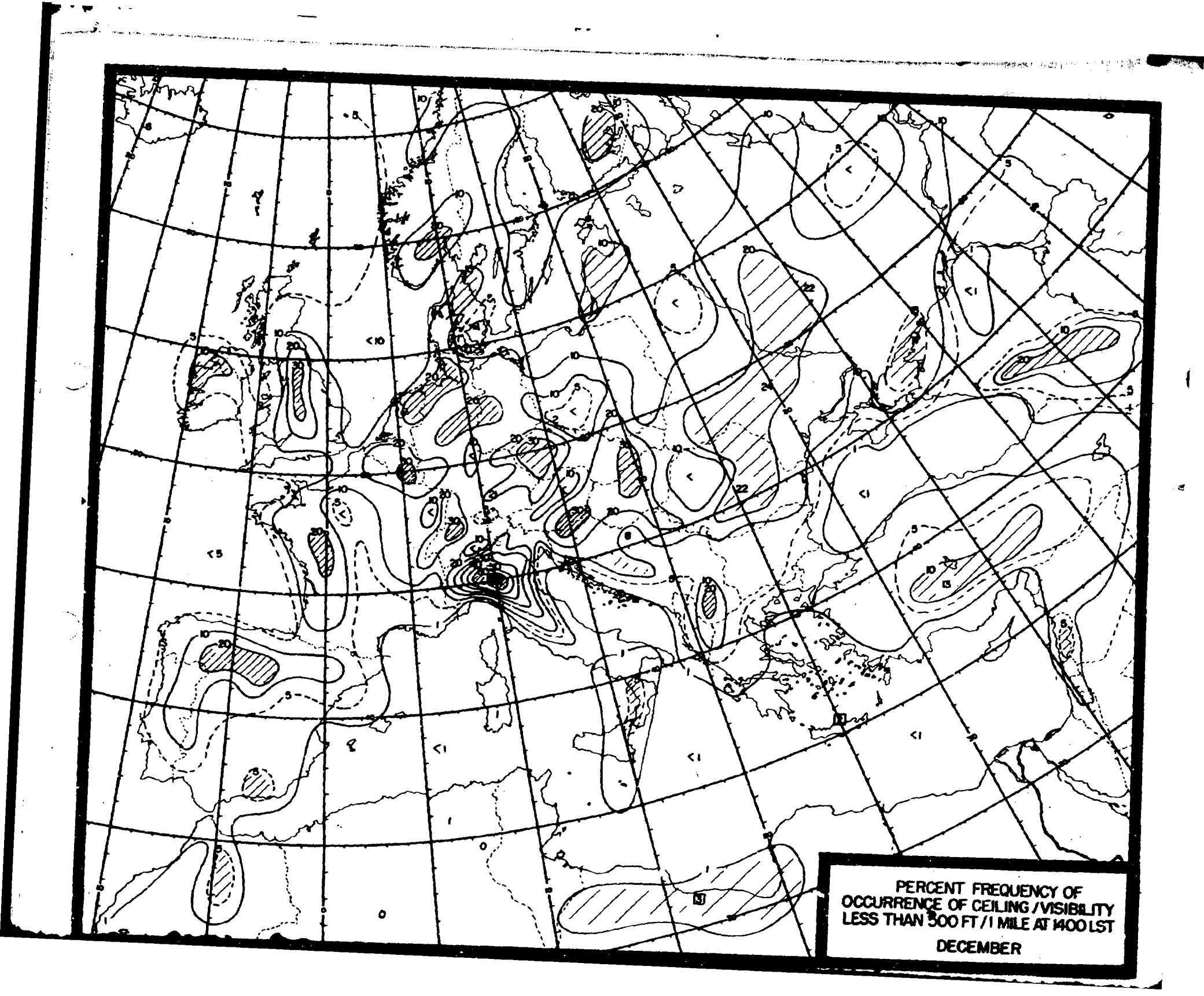


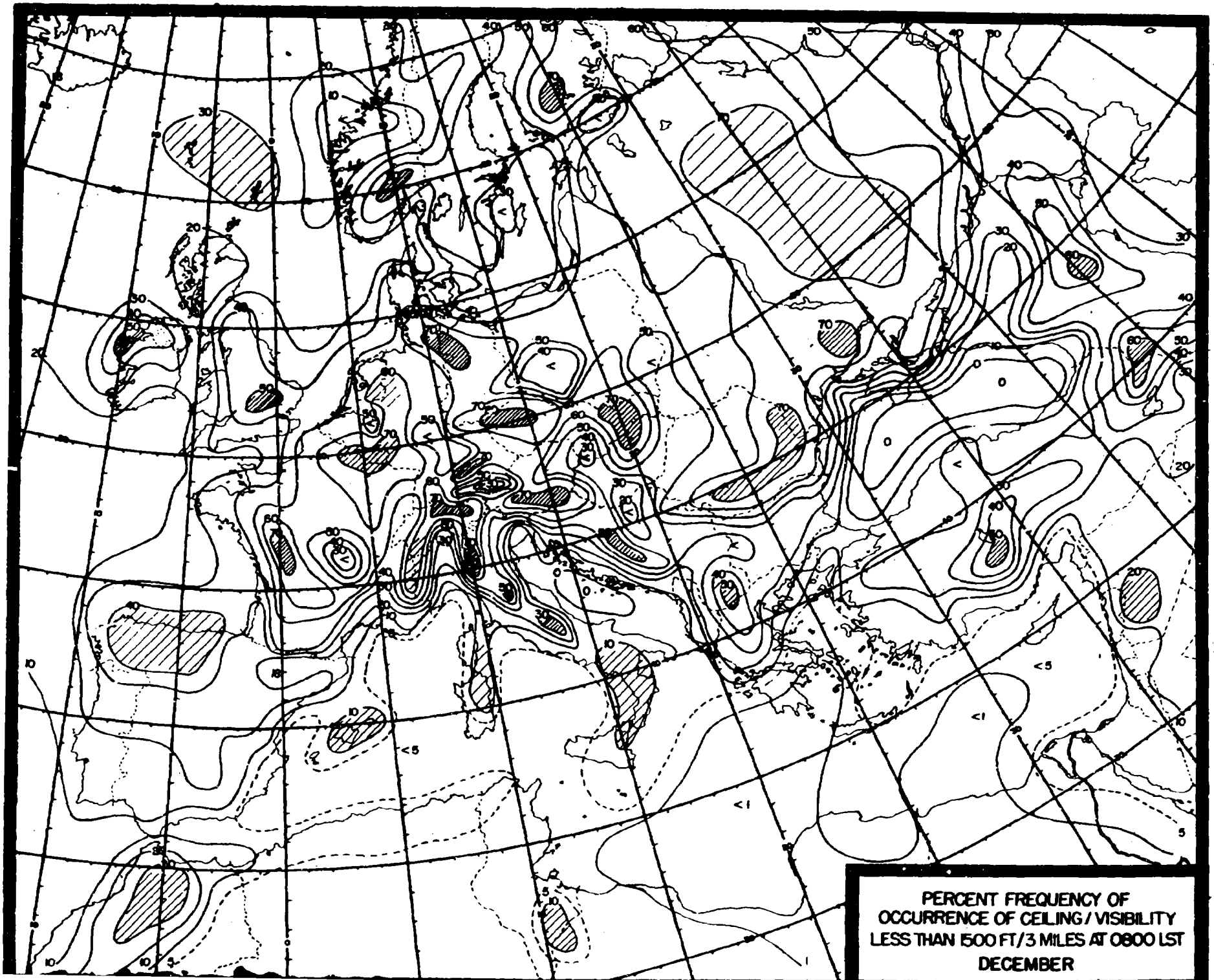
MEAN NUMBER OF
PRECIPITATION DAYS

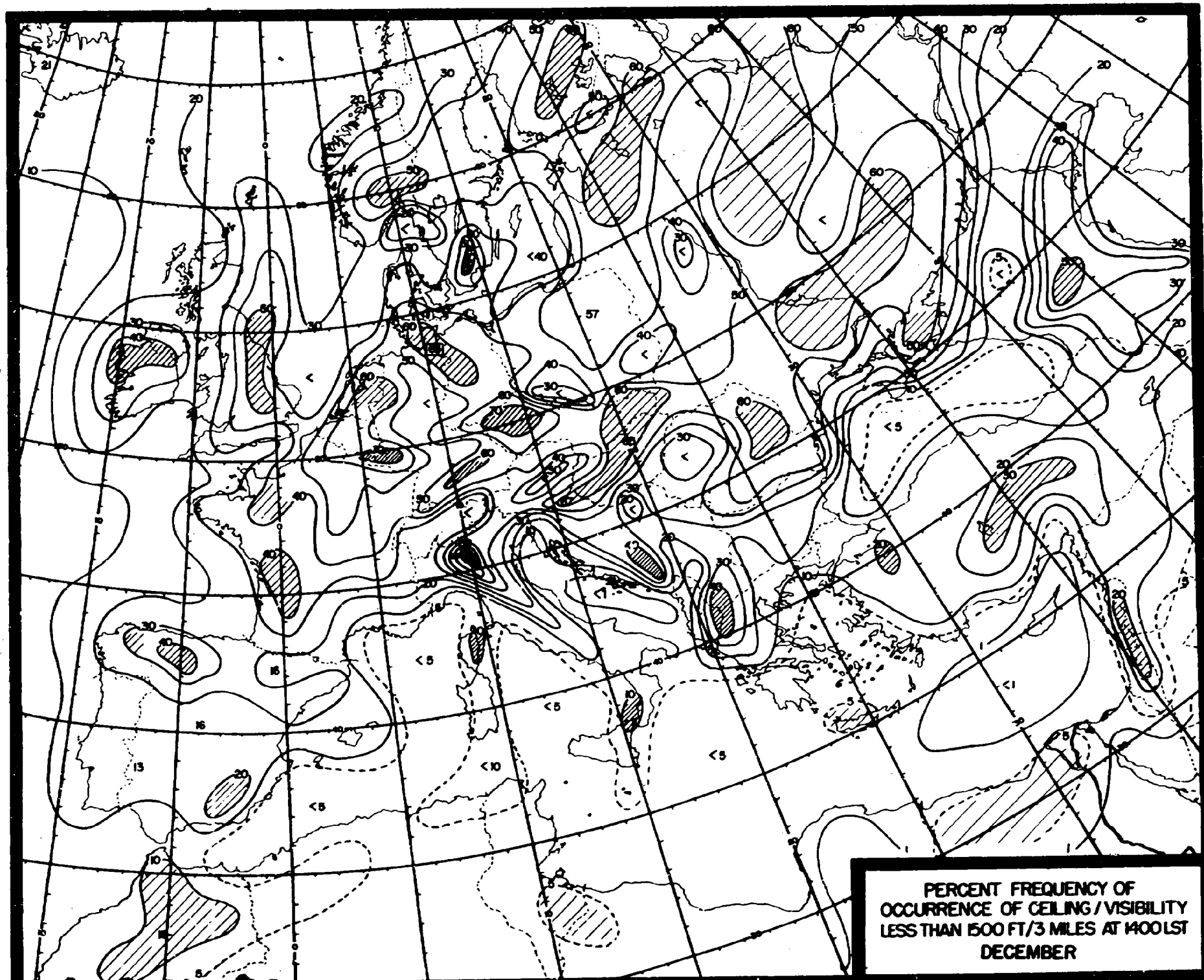
DECEMBER

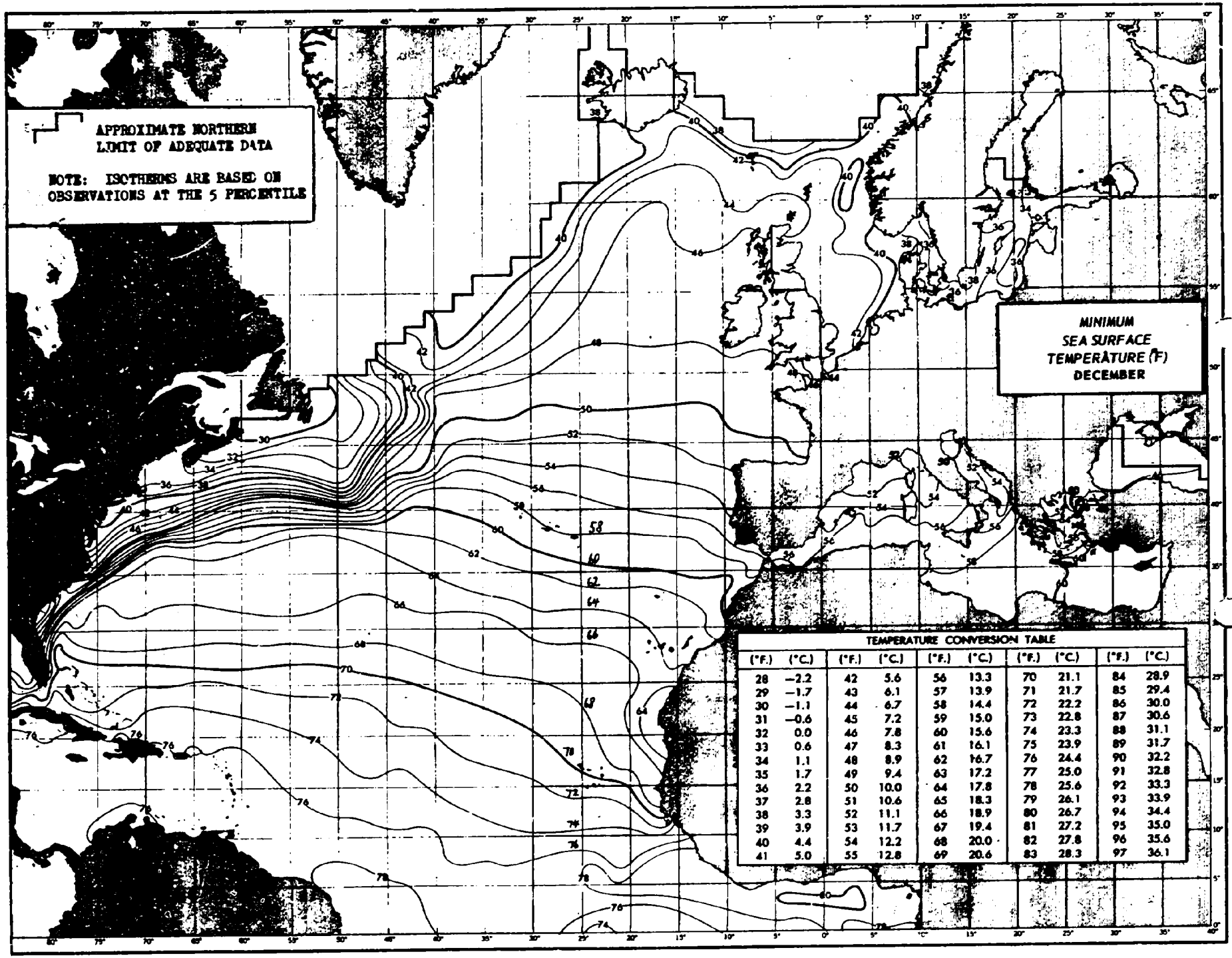

MEAN NUMBER OF
THUNDERSTORM DAYS
DECEMBER


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING/VISIBILITY
LESS THAN 300 FT/1 MILE AT 0800 LST
DECEMBER


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 500 FT / 1 MILE AT 1400 LST
DECEMBER

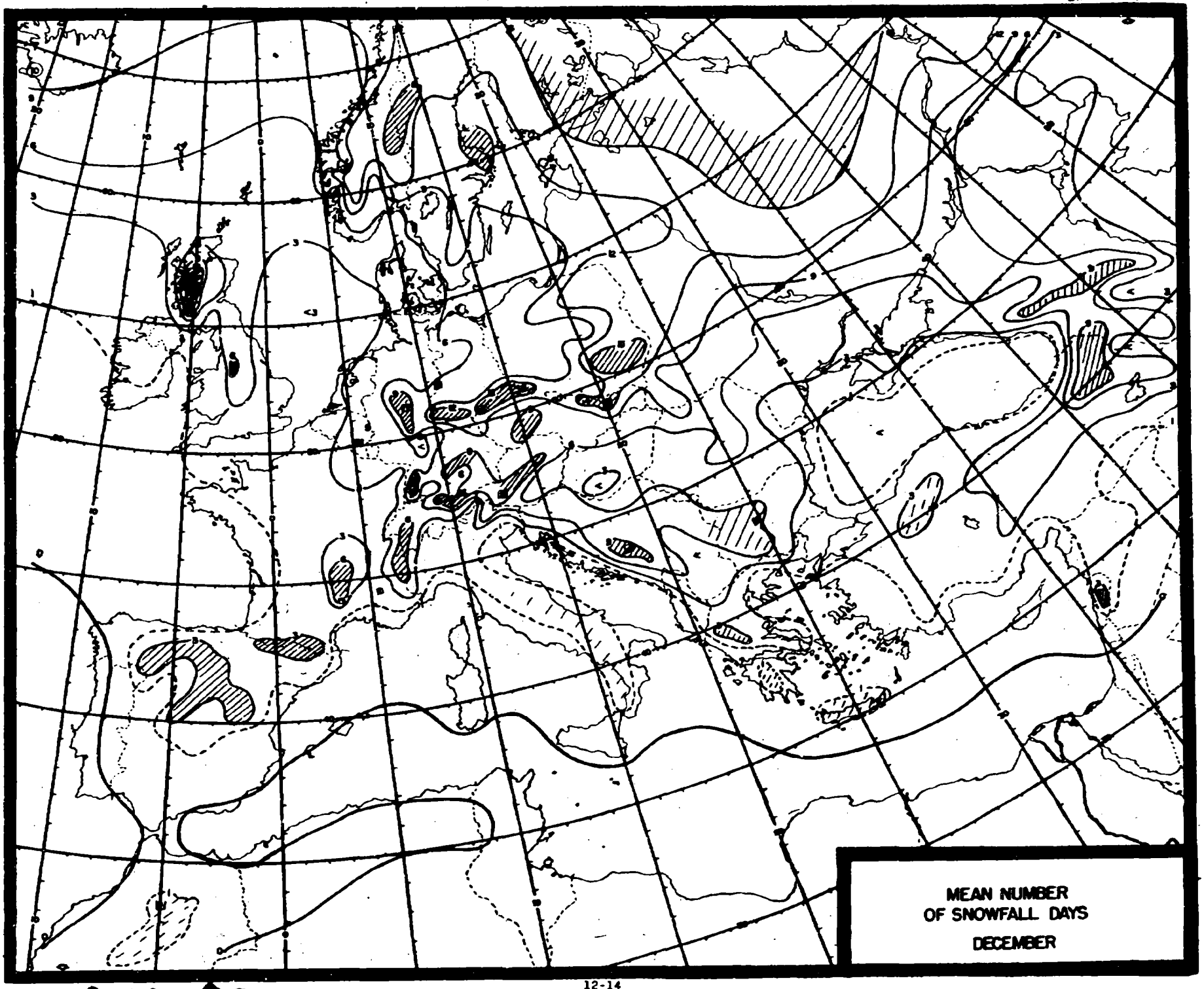

PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 0800 LST
DECEMBER

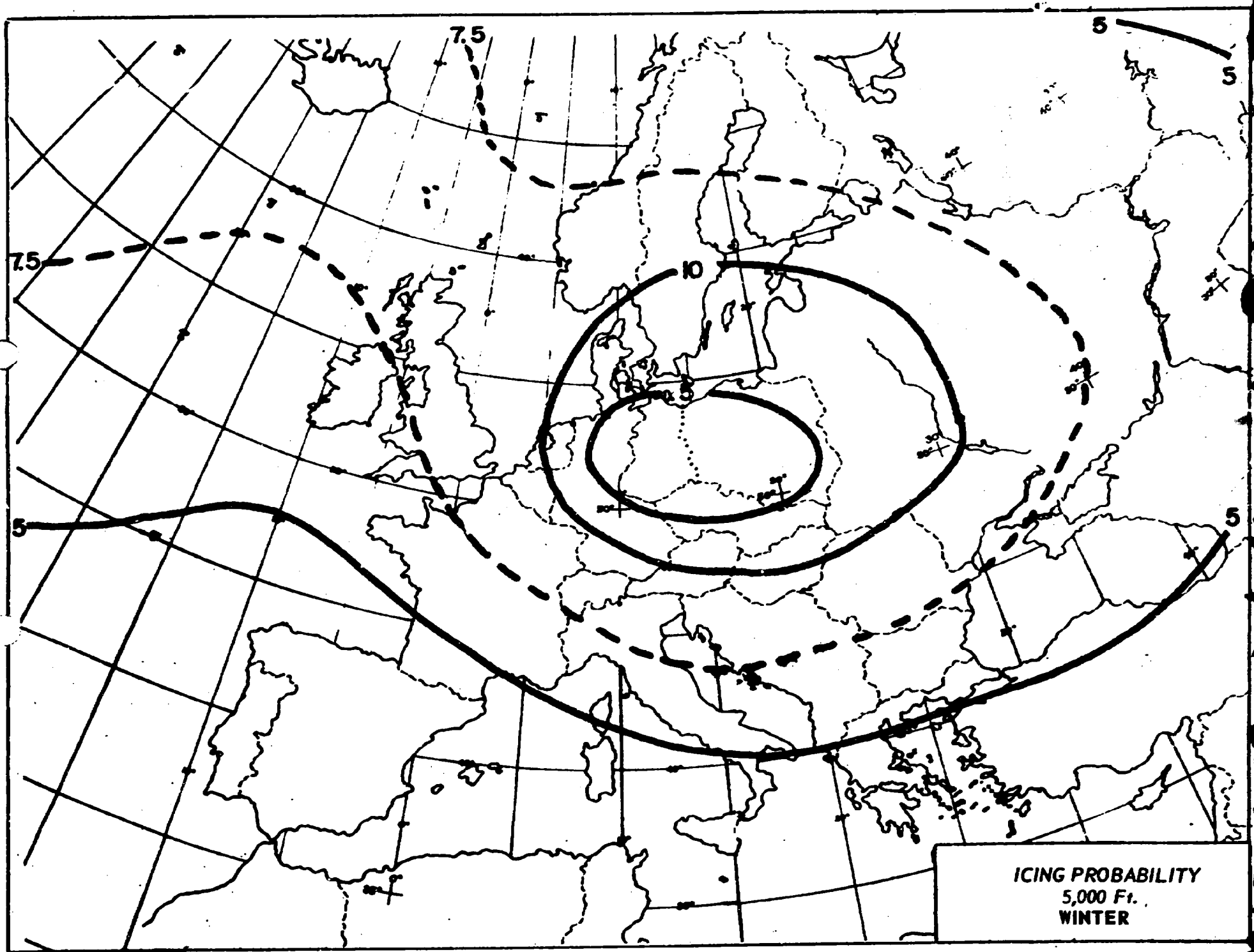

PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 1400 LST
DECEMBER

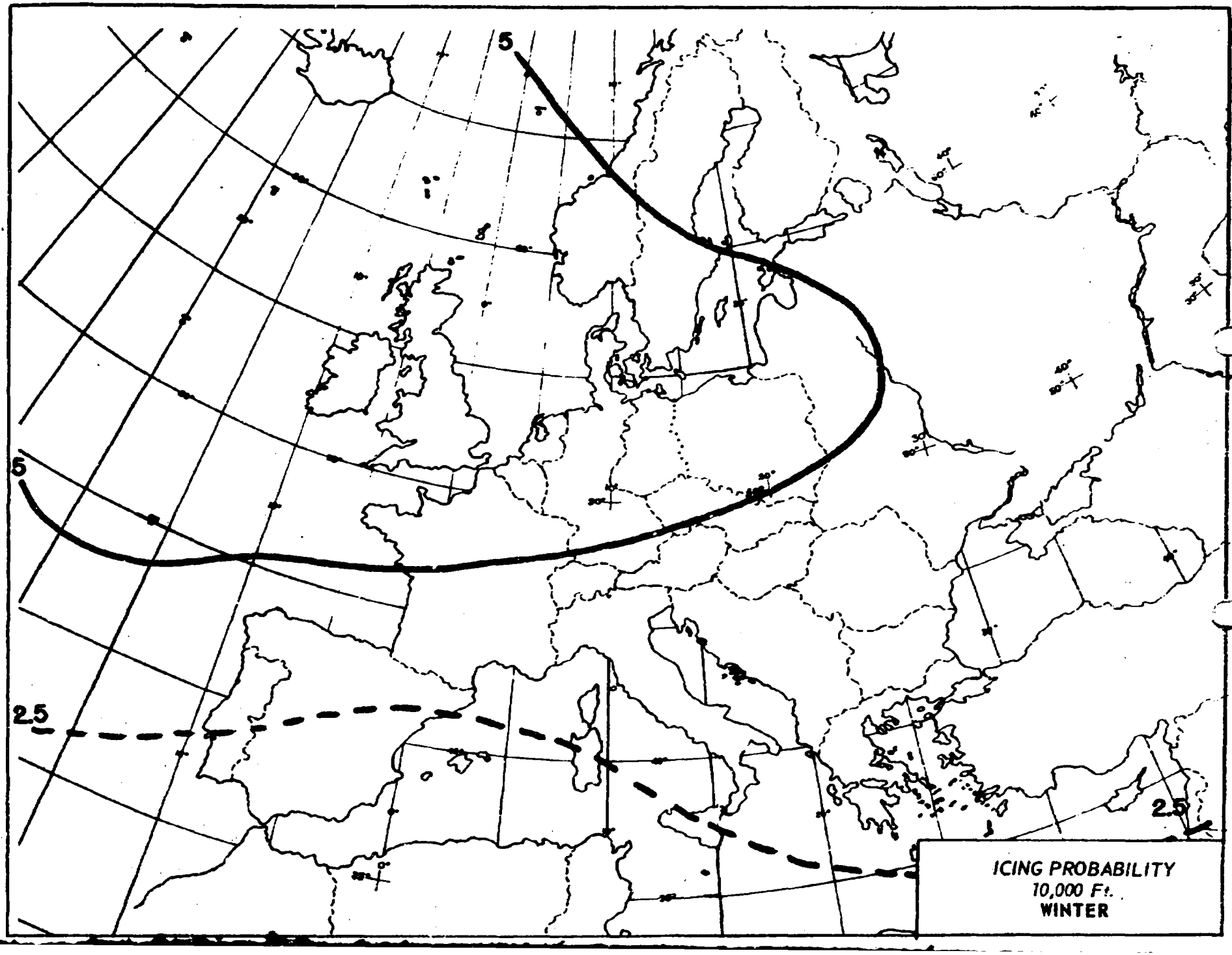


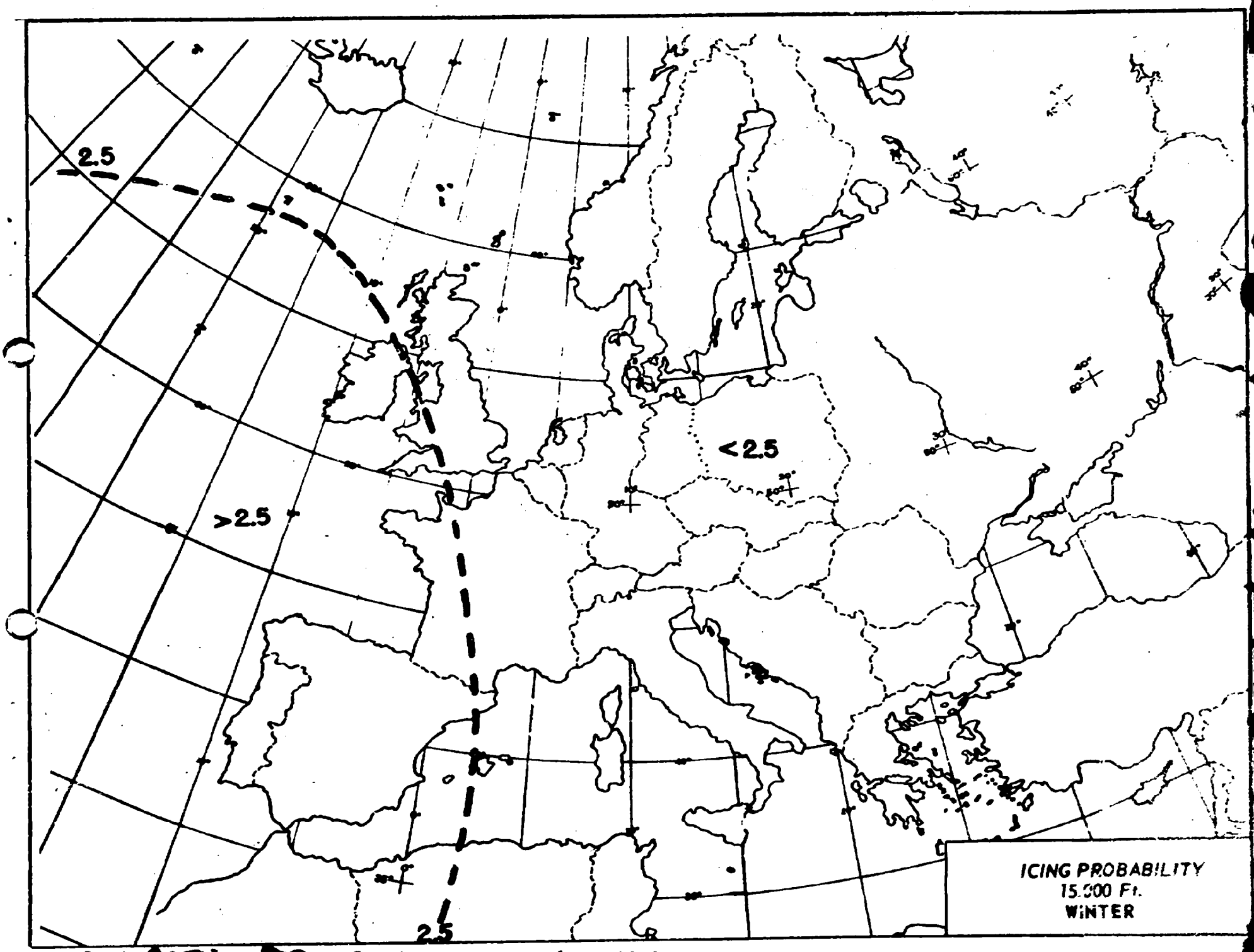
TEMPERATURE CONVERSION TABLE

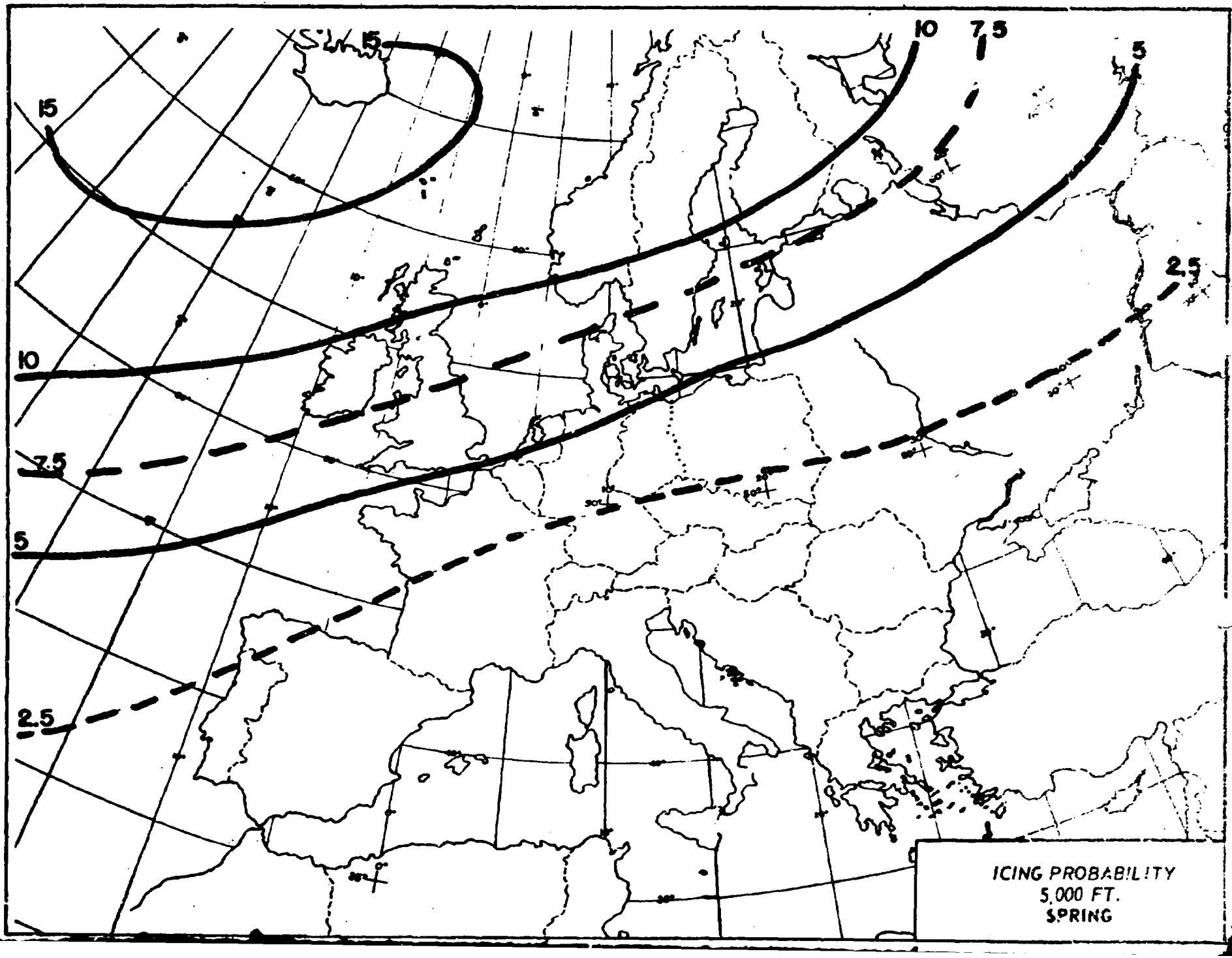
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41	5.0	55	12.8	69	20.6	83	28.3	97	36.1

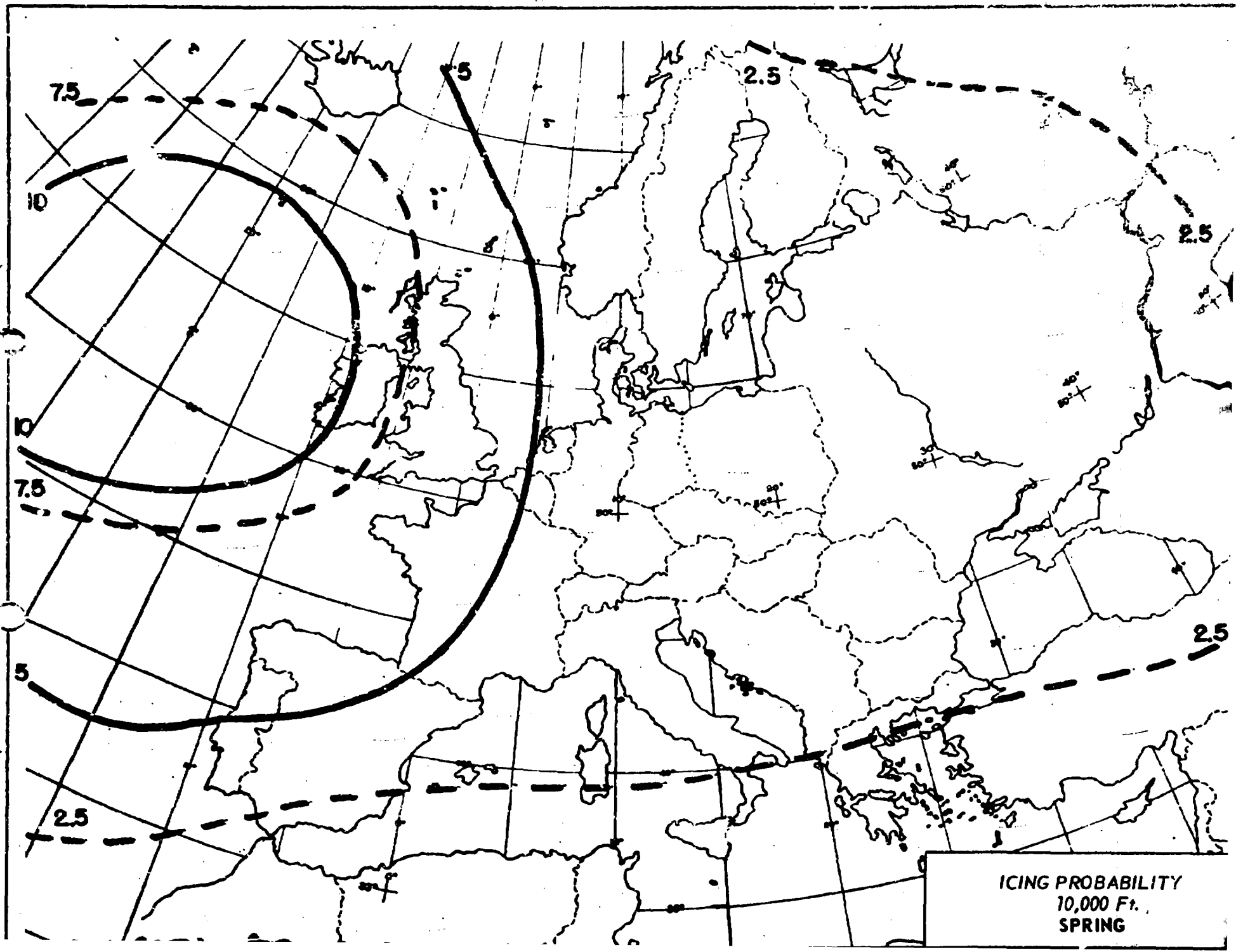

MEAN NUMBER
OF SNOWFALL DAYS
DECEMBER

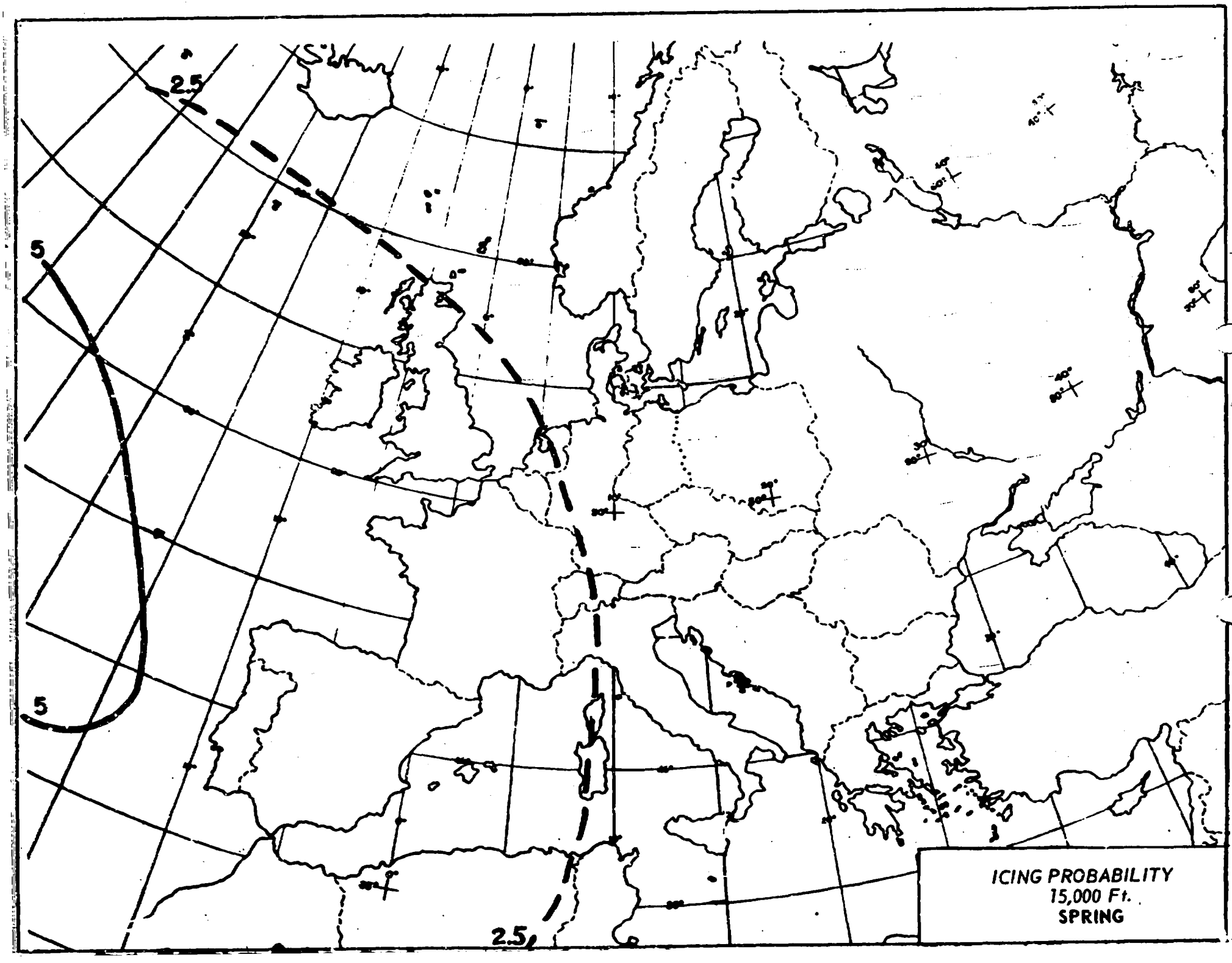

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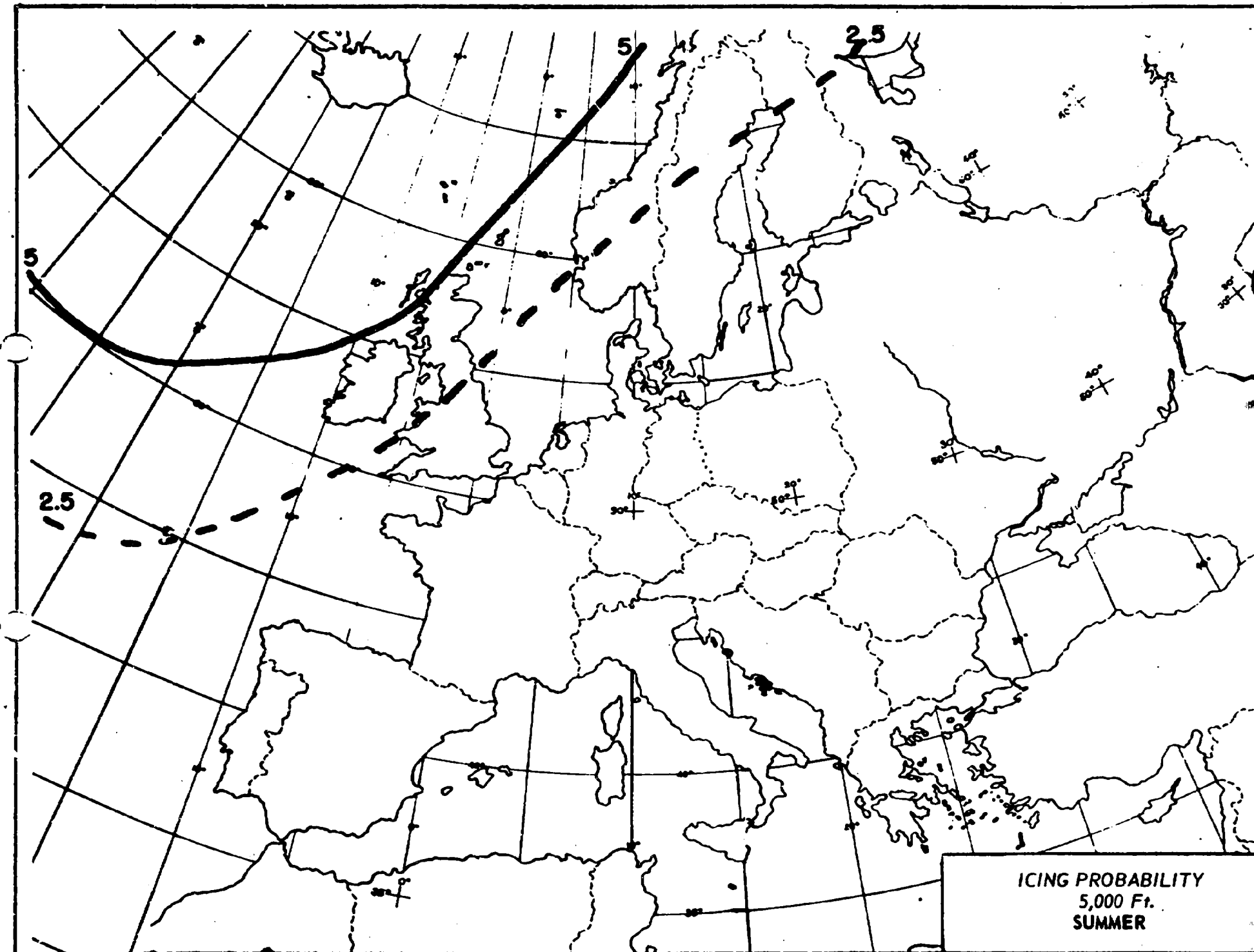

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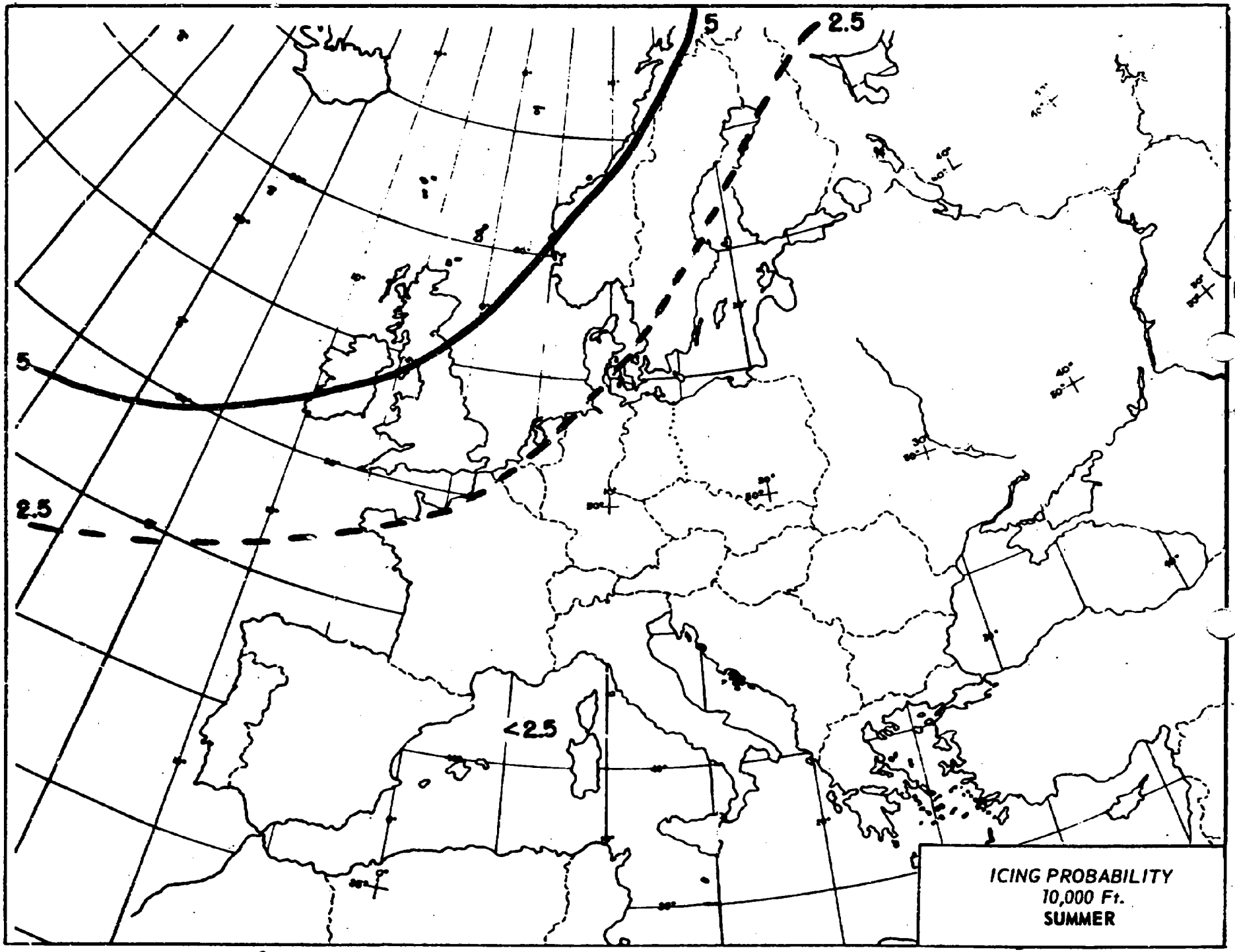

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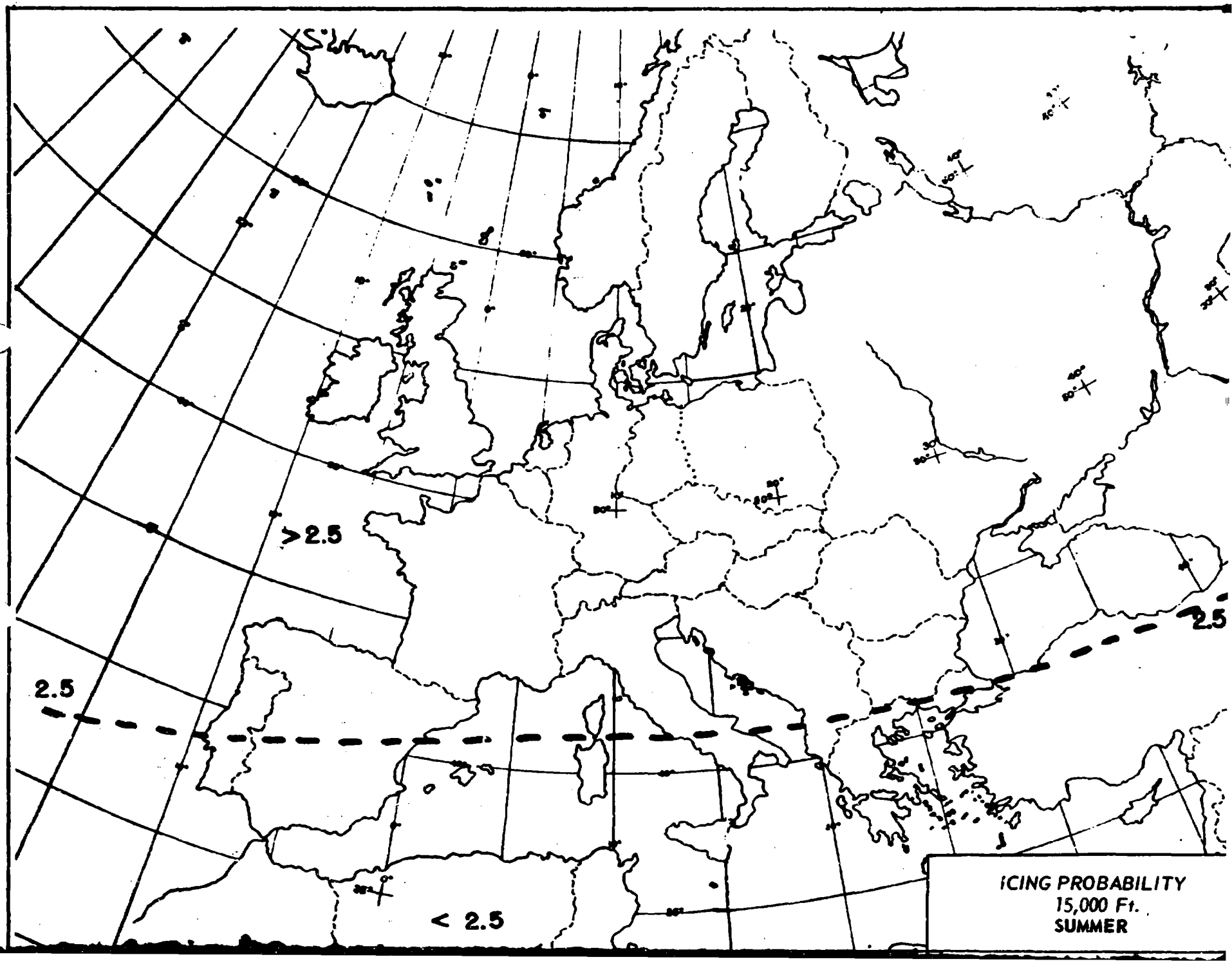

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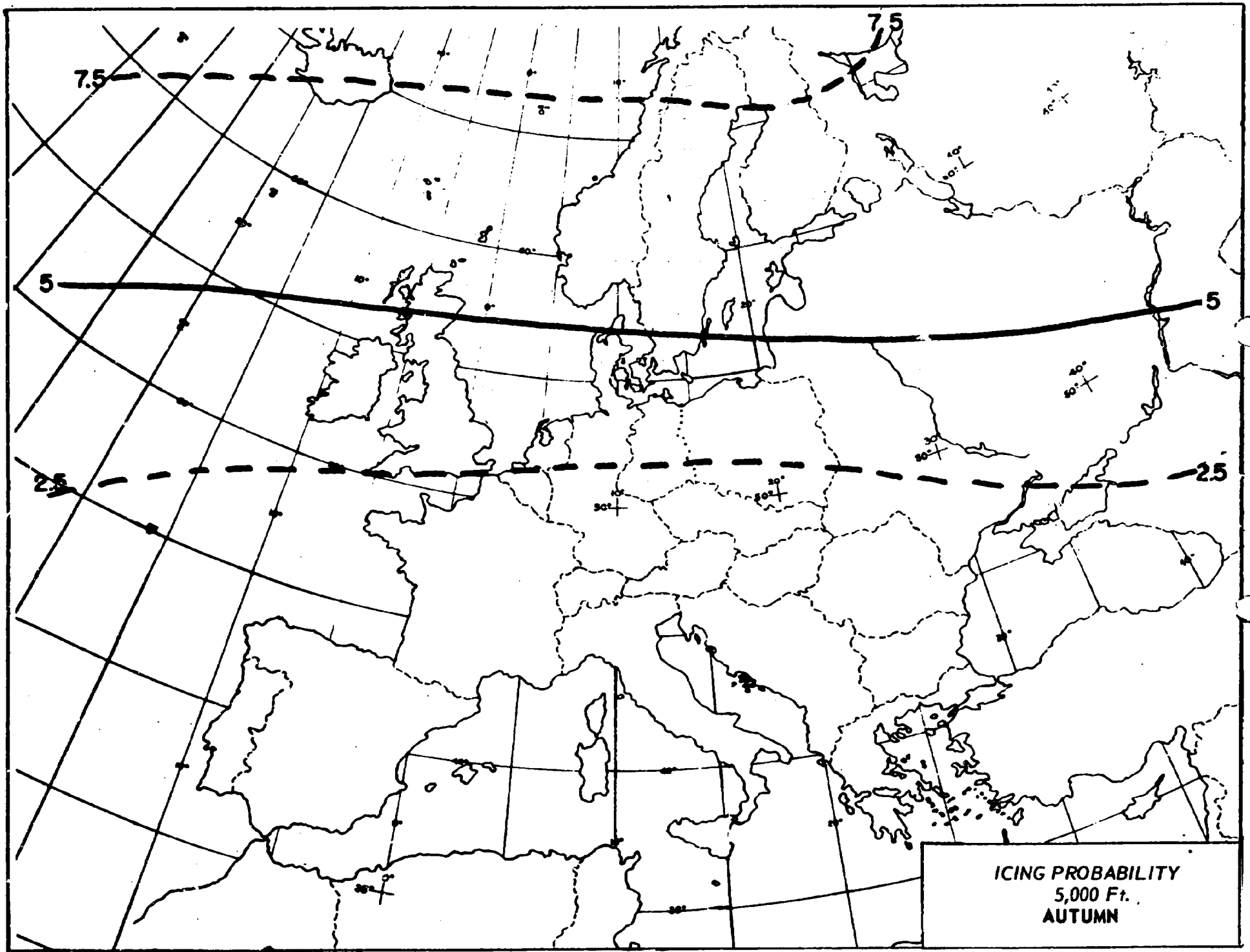

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10,000 Ft.
SPRING

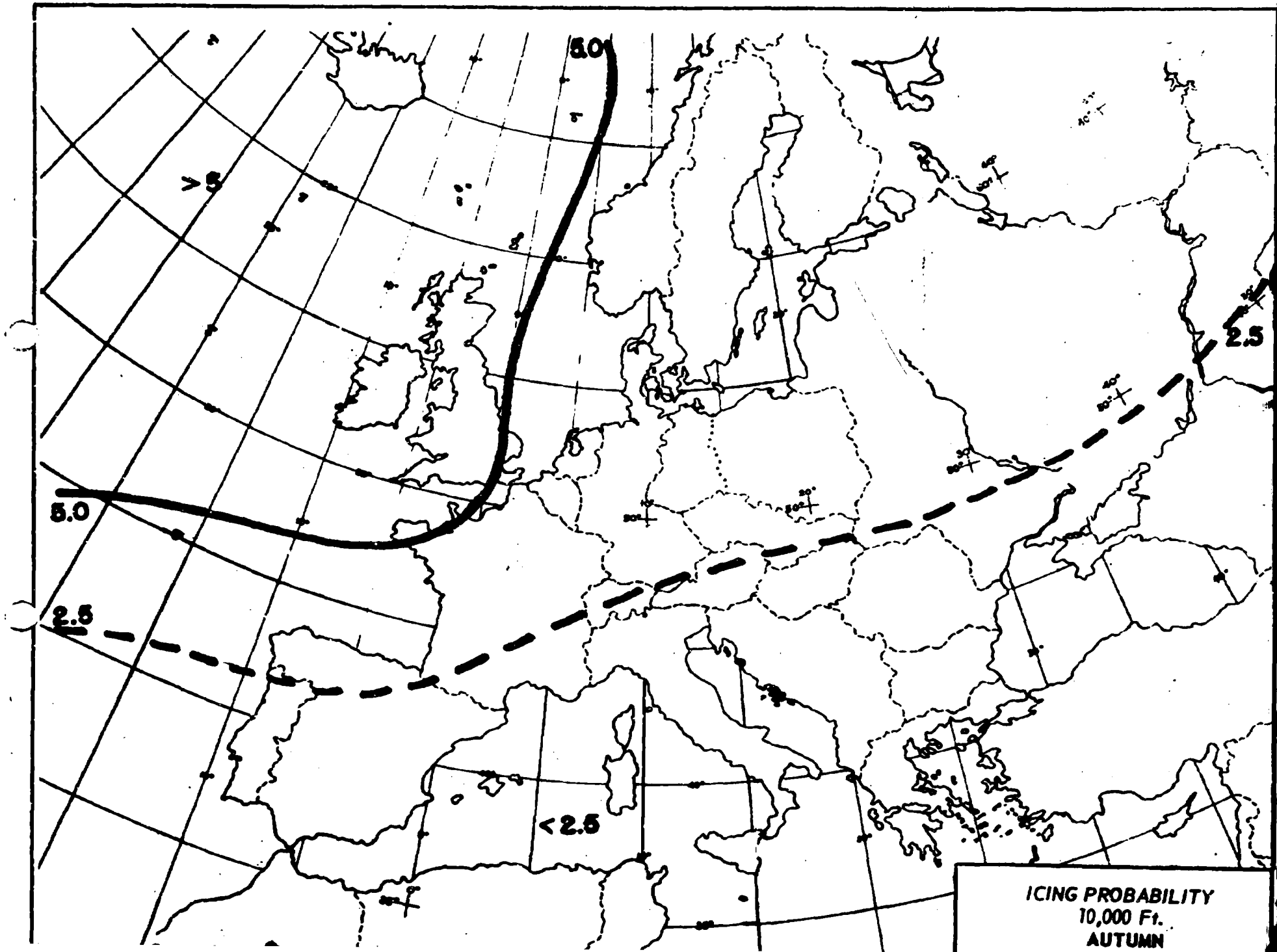

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ICING PROBABILITY
15,000 Ft.
SPRING

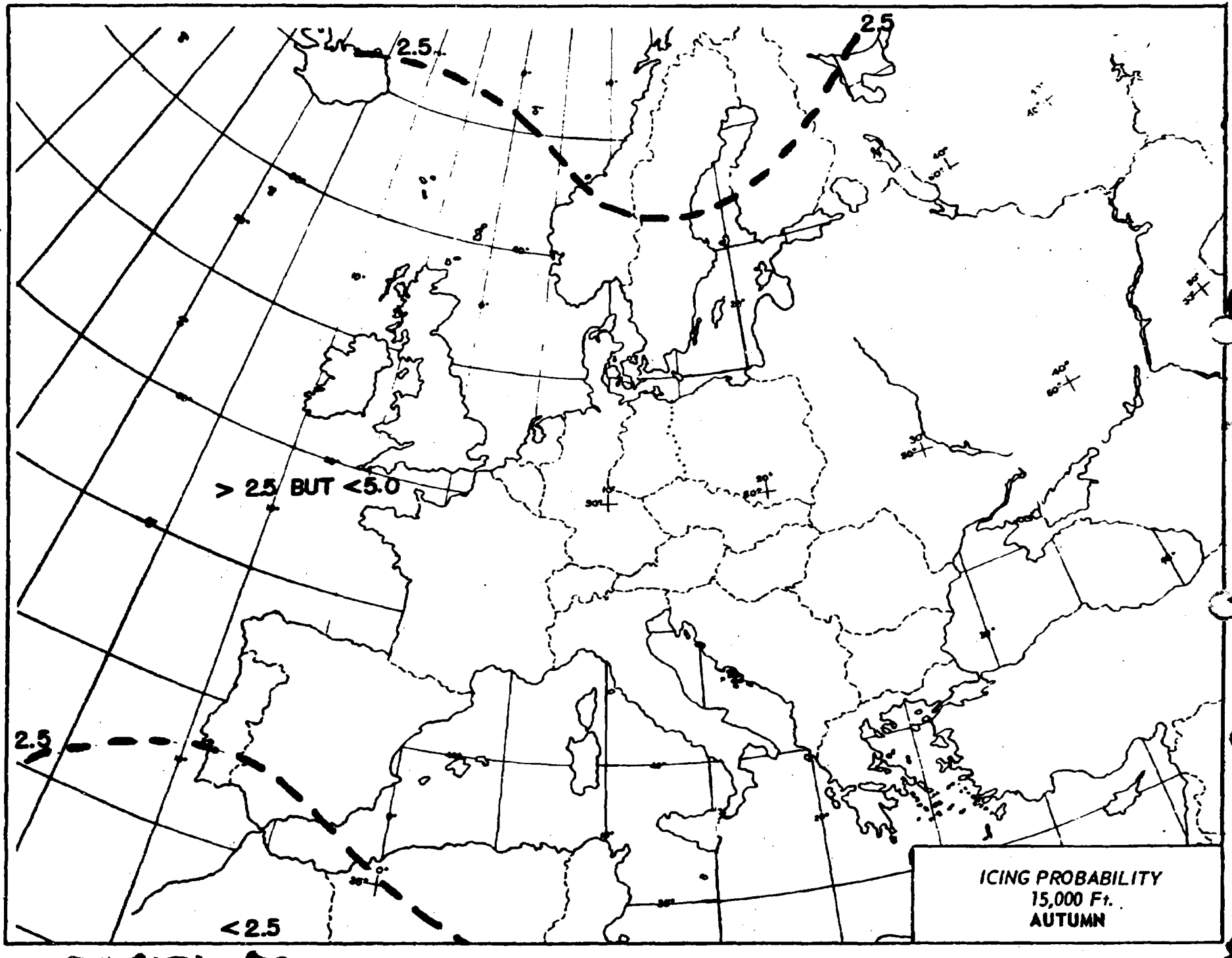

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SUMMER

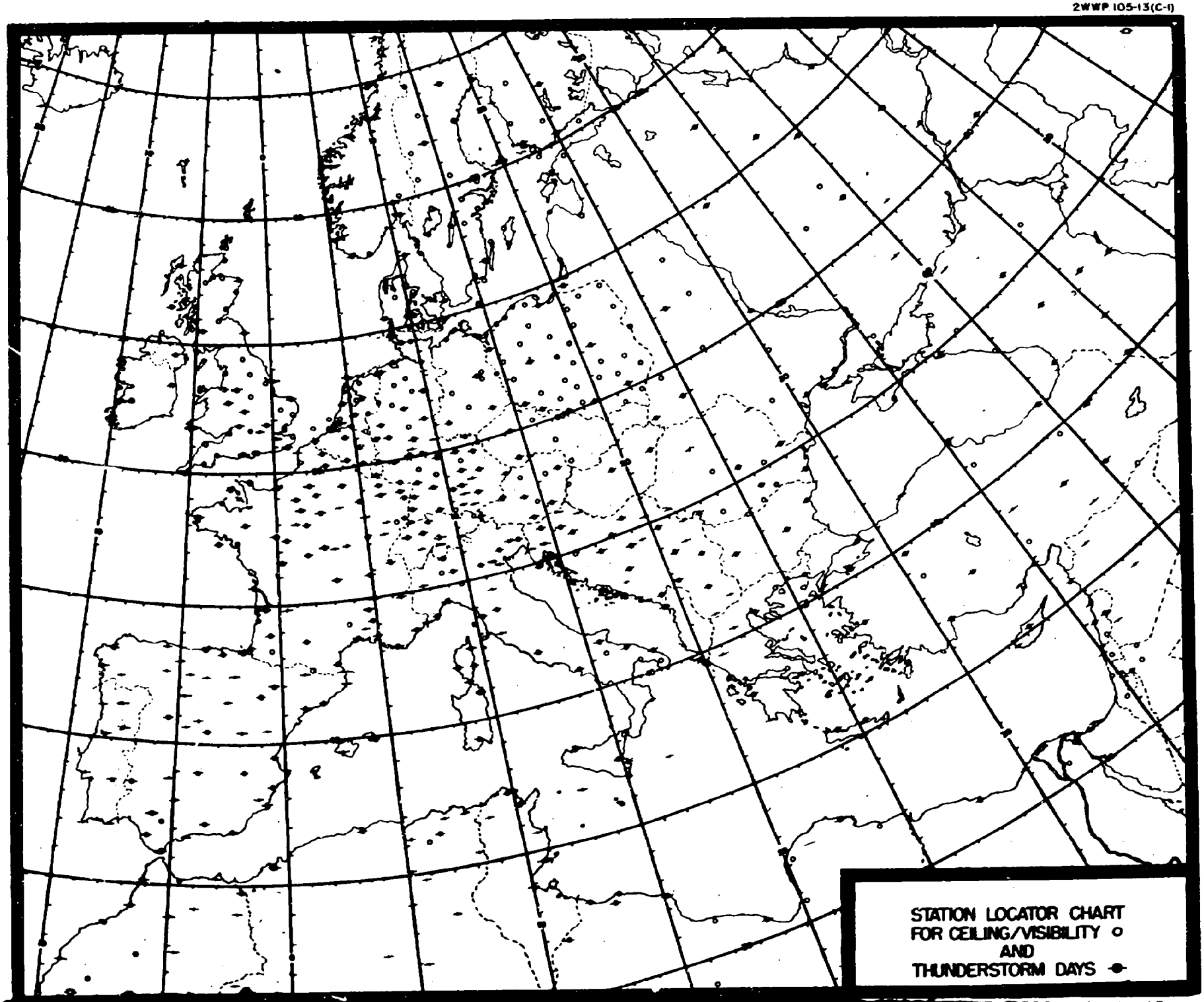

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ICING PROBABILITY
10,000 Ft.
SUMMER

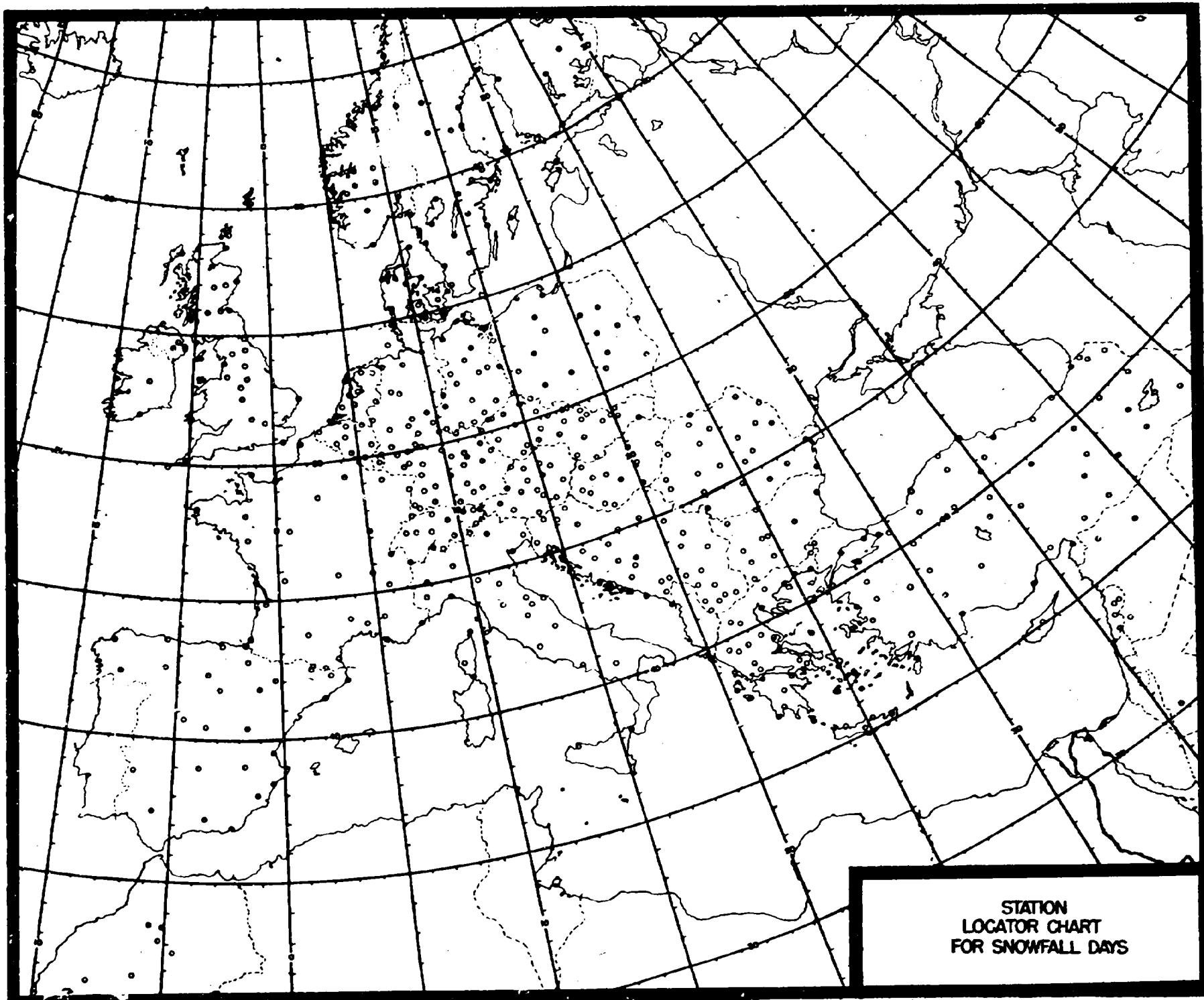

>2.5
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ICING PROBABILITY
15,000 Ft.
SUMMER


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ICING PROBABILITY
5,000 Ft.
AUTUMN


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ICING PROBABILITY
10,000 Ft.
AUTUMN


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ICING PROBABILITY
15,000 Ft.
AUTUMN


STATION LOCATOR CHART
FOR CEILING/VISIBILITY ○
AND
THUNDERSTORM DAYS ●


STATION
LOCATOR CHART
FOR SNOWFALL DAYS

DEPARTMENT OF THE AIR FORCE
Headquarters, 2nd Weather Wing (MAC)
APO New York 09332

CHANGE 1
2WWP 105-13
15 April 1972

Weather

EUROPEAN CLIMATOLOGICAL GUIDE

2WWP 105-13, January 1972, is changed as follows:

1. Page Changes And Additions

Remove (Jan 72)	Insert	Add
3	3	
1-7/1-8	1-7/1-8	1-14
2-7/2-8	2-7/2-8	2-14
3-7/3-8	3-7/3-8	3-14
4-7/4-7	4-7/4-8	4-14
5-7/5-8	5-7/5-8	5-14
6-7/6-8	6-7/6-8	6-14
7-7/7-8	7-7/7-8	7-14
8-7/8-8	8-7/8-8	8-14
9-7/9-8	9-7/9-8	9-14
10-7/10-8	10-7/10-8	10-14
11-7/11-8	11-7/11-8	11-14
12-7/12-8	12-7/12-8	12-14
		14-1
		14-2
		14-3

2. Pen And Ink Changes

Page	Paragraph	Line	Action
2	2-4	3	Change "...500 feet/1 mile..." to "...300 feet/1 mile..."
2	2-7		Change paragraph number from 2-7 to 2-8.
2			Add paragraph 2-7: "Snowfall Days (12 charts). A snowfall day is one during which falling snow is observed, regardless of whether there is snow accumulation."
2	3-1a	8	Change "...Below 500 ft/1 mi..." to "...Below 300 ft/1 mile..."
2	3-1a	9	Change "...Below 500 ft/1 mi..." to "...Below 300 ft/1 mi..."
2	3-1	3	Change "14" to "13".
2-3			Change label on isopleth south of French Riviera from 30 to 50.
1-9	7-9		Change legends from "...Less Than 500 Feet/1 Mile..." to "...Less Than 300 Feet/1 Mile..."
2-9	8-9		
3-9	9-9		
4-9	10-9		
5-9	11-9		
6-9	12-9		

3. Filing. After posting the changes, file this change sheet in back of the manual.

HEADQUARTERS 2D WEATHER WING OFFICIAL

JAMES M. BURKHART, Colonel, USAF
Commander

SAMUEL G. BURKE III, Capt, USAF
Chief, Administration Division

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1 WWg, APO San Francisco 96553 - 2
3 WWg, Offutt AFB, NE 68113 - 2
4 WWg, Ent AFB, CO 80912 - 2
5 WWg, Langley AFB, VA 23365 - 2
6 WWg, Andrews AFB, Washington, D.C. 20332 - 2
7 WWg, Scott AFB, IL 62225 - 2
9 WRWg, McClellan AFB, CA 95652 - 2
Fleet Weather Central, FPO 09540 - 1
Dept of Weather Training, 3345 Technical School, Chanute AFB, IL 61866 - 1

AD-743145

DEPARTMENT OF THE AIR FORCE
Headquarters 2d Weather Wing (MAC)
APO New York 09012

CHANGE 2
2WWP 105-13
8 March 1978

Weather

EUROPEAN CLIMATOLOGICAL GUIDE

2WWP 105-13, 31 January 1972, is changed as follows:

1. Page Change:

Remove	Date
13-1 thru 13-12	31 Jan 72

2. Write-in Changes:

Page	Paragraph	Action
2	2-6	Change to read: The latest available climatological information on icing is contained in AWS TR 220 (June 1972). Charts showing the probability of encountering icing conditions are given by months for 1000, 850, 700 and 500mb.

OFFICIAL

CHARLES O. JENISTA, JR., Col, USAF
Commander

JAMES E. WOODARD, JR., 1LT, USAF
Chief, Administration Division

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DISTRIBUTION: X(Cat V)
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DDC, Cameron Station Alexandria, VA 22314 - 20
AFGWC/AS, Offutt AFB, NE 68113 - 1
1 Wwg, APO San Francisco 96553 - 2
3 Wwg, Offutt AFB, NE 68113 - 2
5 Wwg, Langley AFB, VA 23365 - 2
7Wwg, Scott AFB, IL 62225 - 2
Fleet Weather Central, FPO 09540 - 1
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Det 6 2 Ww/ECJ3-WE - 2

AD-743148

DEPARTMENT OF THE AIR FORCE
Headquarters 2d Weather Wing (MAC)
APO New York 09012

CHANGE 3
2WWP 105-13
19 April 1982

Weather

EUROPEAN CLIMATOLOGICAL GUIDE

2WWP 105-13, 31 January 1972, is changed as follows:

Write-In Changes:

Page	Paragraph	Line	Action
1	1-1	3 thru 7	Delete 2d and 3rd sentences. Change 4th sentence to read: "It provides data for western Europe, northern Africa and the Near East."
2	3-1	3	Delete "except for section 13 which contains seasonal charts."
3	4-1b	1 thru 13	Delete.

JAMES W. HALL, Colonel, USAF
Commander

JAMES R. SCHAFFNER, Captain, USAF
Chief of Administration

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